

SONY®

VTR IN CAMERA

BVW-300AP



BETACAM SP

MAINTENANCE MANUAL

Volume 2 2nd Edition (Revised 5)

Serial No. 41954 and Higher

X-RAY RADIATION WARNING

Be sure that parts replacement in the high voltage block and adjustments made to the high voltage circuits are carried out precisely in accordance with the procedures given in this manual.

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注意：

下記のシリアルナンバー以降より
基板名が変更になったものがあり
ます。従って、このマニュアルに
記載されている基板名称を下記の
ように読み替えてご使用下さい。

NOTE：

The names of some boards have been changed.
In this manual old names may be read as new
names according to the following table.

BOARD CHANGE INFORMATION		SERIAL NUMBER
OLD NAME	⇒ NEW NAME	
PS - 1 6 2	⇒ PS - 1 6 2 B	3 0 9 1 1 AND HIGHER: J
TC - 4 8 A	⇒ TC - 4 8 B	1 1 7 1 3 AND HIGHER: UC
TC - 4 8 A P	⇒ TC - 4 8 B P	4 2 0 9 6 AND HIGHER: EK
SW - 2 9 1	⇒ SW - 2 9 1 A	3 0 9 1 6 AND HIGHER: J 1 1 7 4 3 AND HIGHER: UC 4 2 1 3 1 AND HIGHER: EK
VA - 8 3	⇒ VA - 1 6 8	3 2 0 0 1 AND HIGHER: J 1 3 0 0 1 AND HIGHER: UC 4 4 0 0 1 AND HIGHER: EK
AT - 4 9 A	⇒ AT - 4 9 C	
PA - 1 0 1	⇒ PA - 1 5 5	
TG - 5 7	⇒ TG-162, 163 and 121	
TG - 5 7 P	⇒ TG-162P, 163 and 121	
VIEWFINDER		
VF - 3 2	VF - 5 0	
VR - 6 7	VR - 1 4 9	
SW - 2 6 0 A	⇒ SW - 5 6 2	
LP - 4 0	LP - 6 4	
LP - 4 2	LP - 6 5	
LP - 5 8	LP - 6 6	
	CN - 7 7 1	
IF - 2 9 8	⇒ IF - 2 9 8 A	3 2 0 0 1 AND HIGHER: J 1 3 0 0 1 AND HIGHER: UC

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SYSTEM CONTROL

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TIME CODE

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POWER

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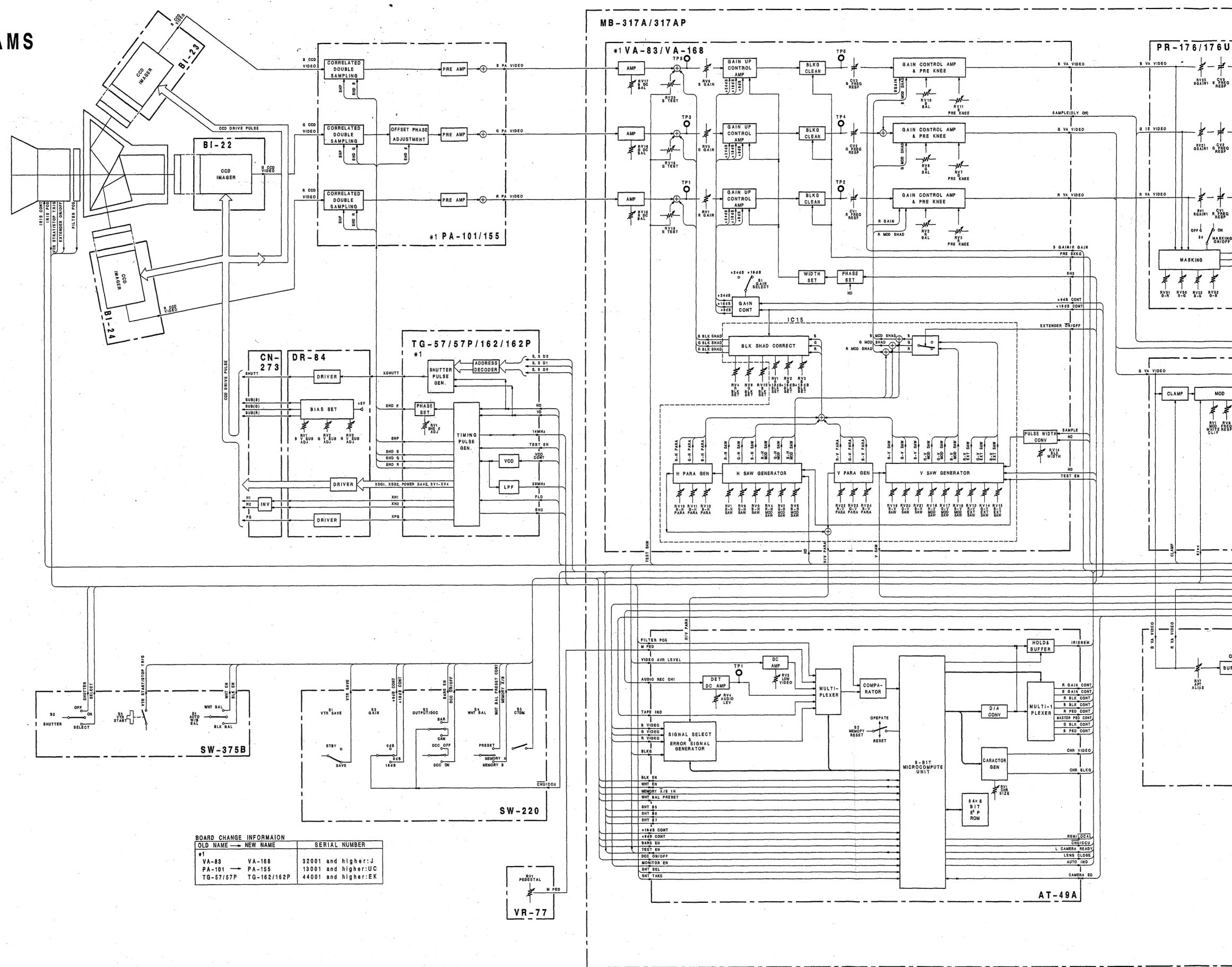
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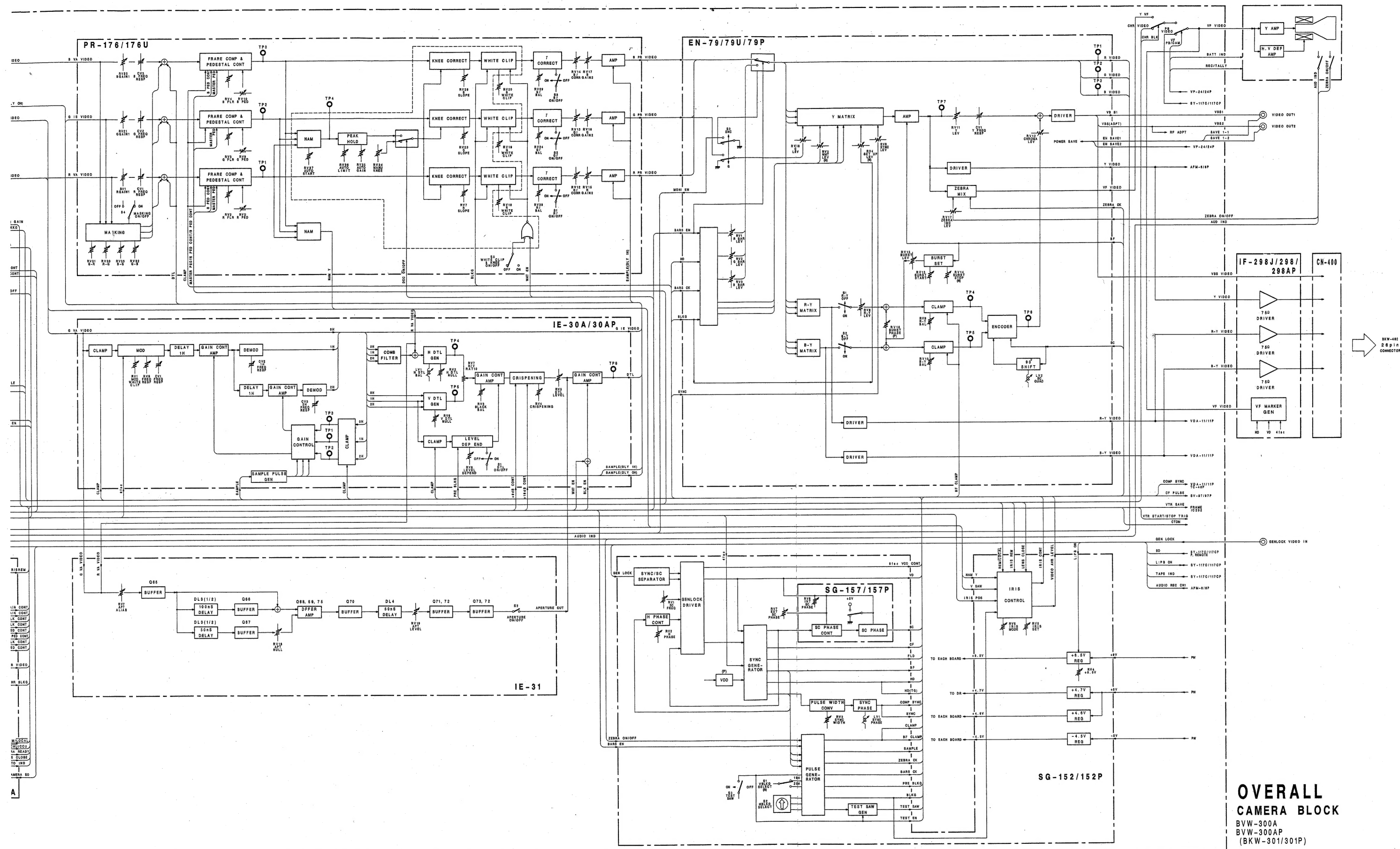
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OVERALL(CAMERA) OVERALL(CAMERA)

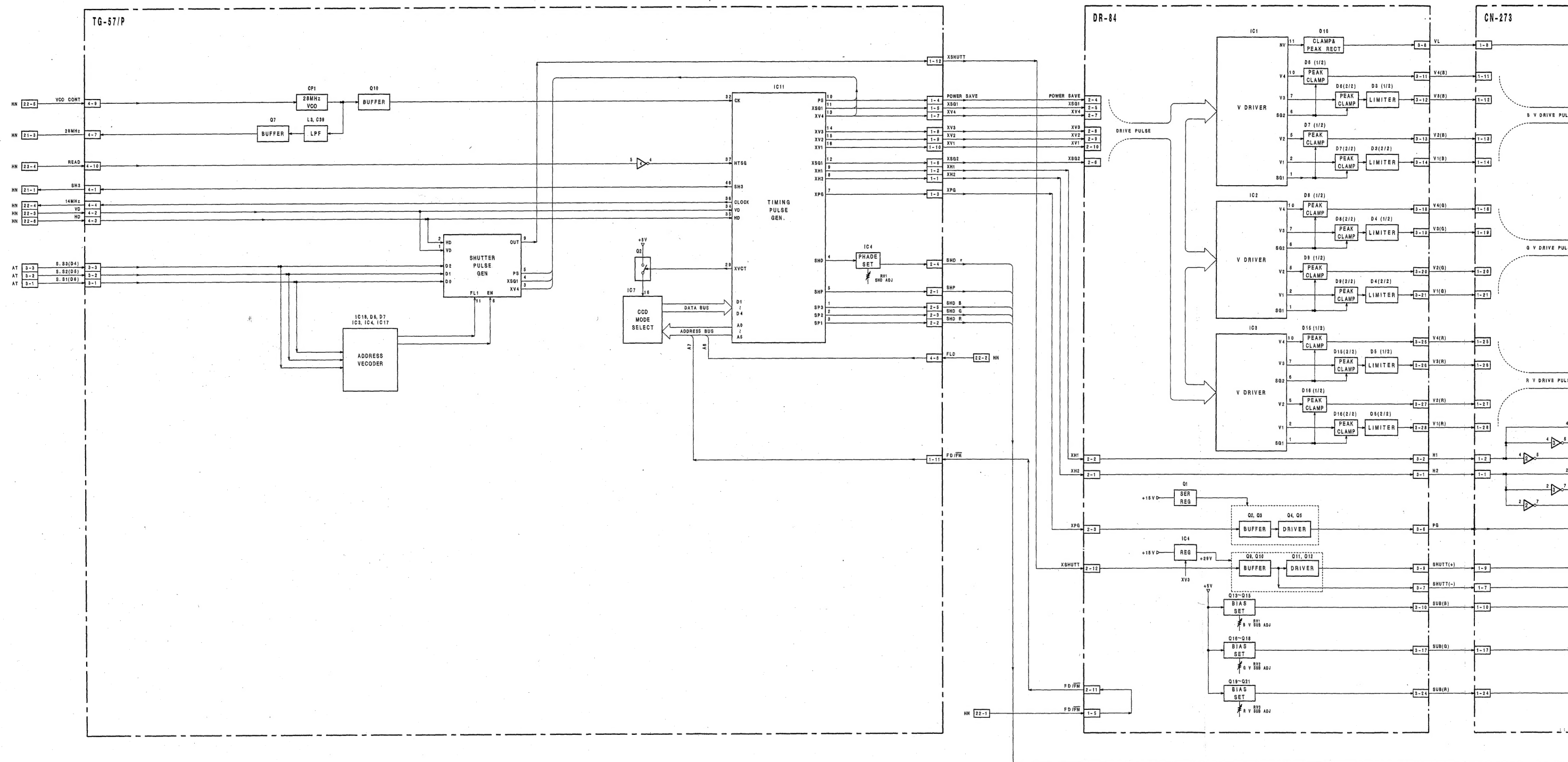


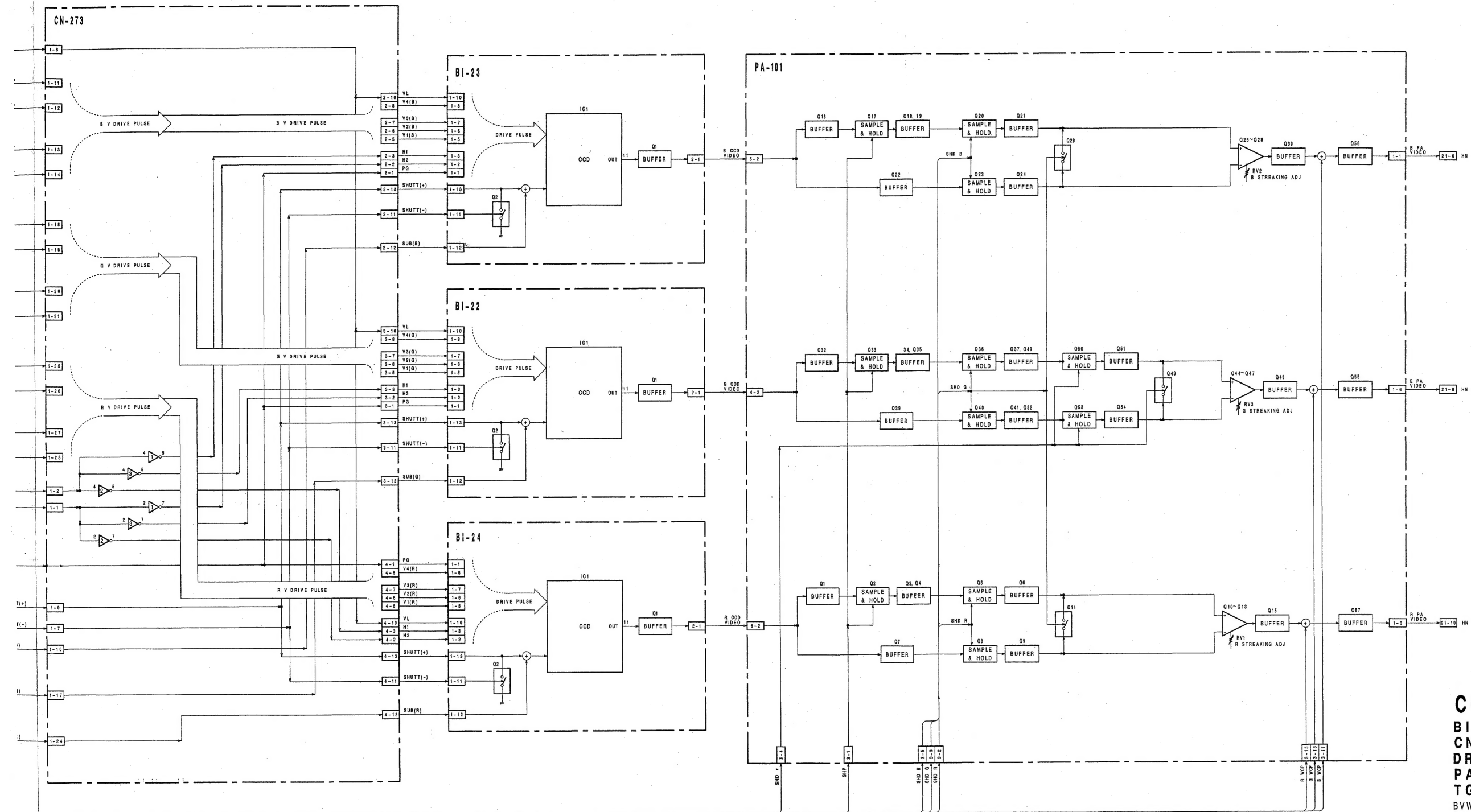


**OVERALL
CAMERA BLOCK**
BVW-300A
BVW-300AP
(BKW-301/301P)

CCD DRIVER
CCD BIAS
CCD PREAMP
TIMING GENERATOR

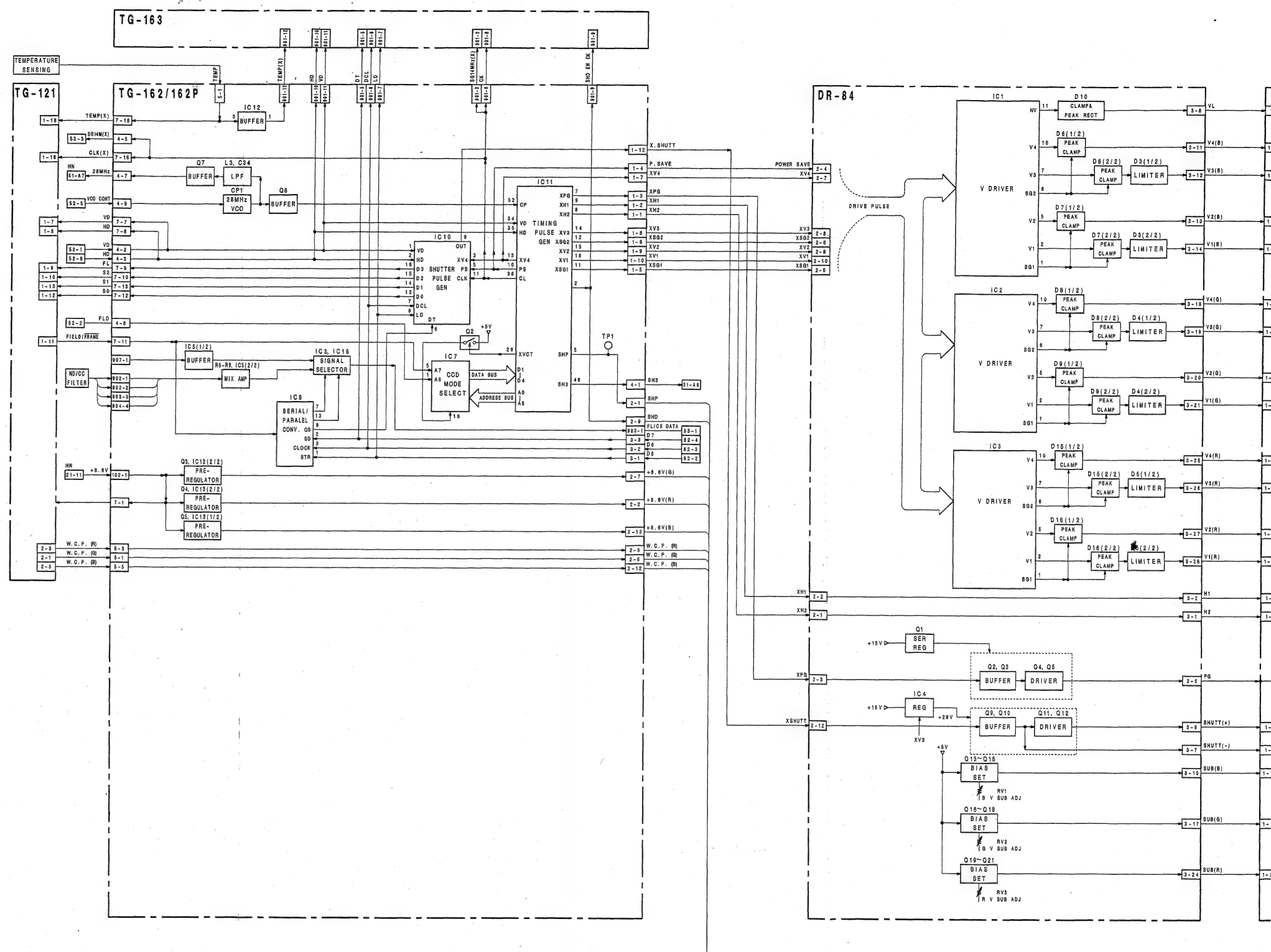
S/N J;30886 through 31999
UC;11638 through 12999
EK;41954 through 43999

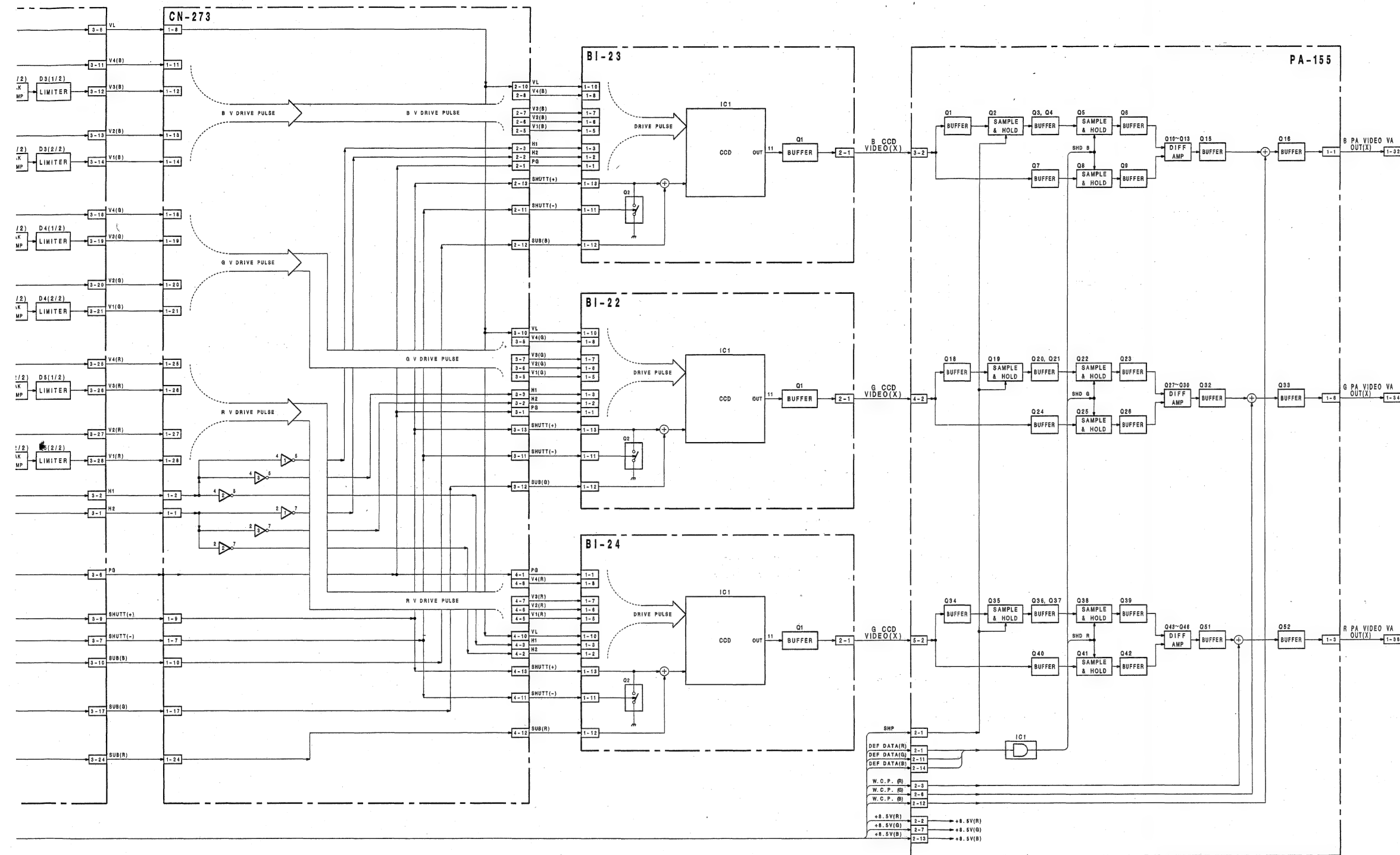




CCD-BLOCK
BI-22/23/24
CN-273
DR-84
PA-101
TG-57/57P
BVW-300A
BVW-300AP
(BKW-301/301P)

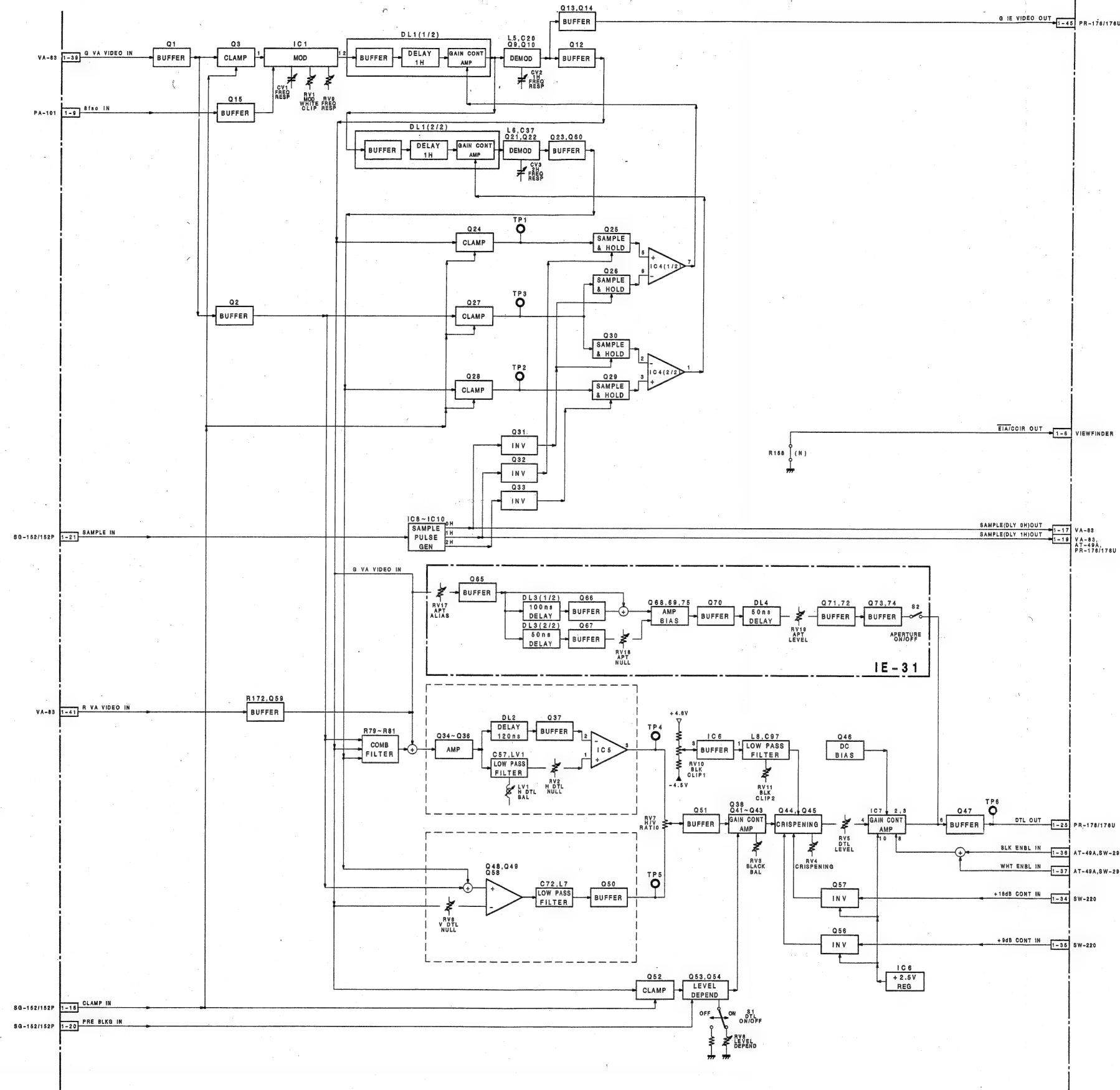
S/N J;32001 and higher
UC;13001 and higher
EK;44001 and higher





CCD-BLOCK
BI-22/23/24
CN-273
DR-84
PA-155
TG-162/162P
BVW-300A
BVW-300AP
(BKW-301/301P)

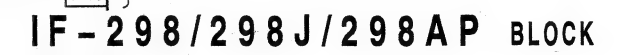
IMAGE ENHANCER



IE-30A/30AP
IE-31
CAMERA BLOCK
BVW-300A
BVW-300AP

米

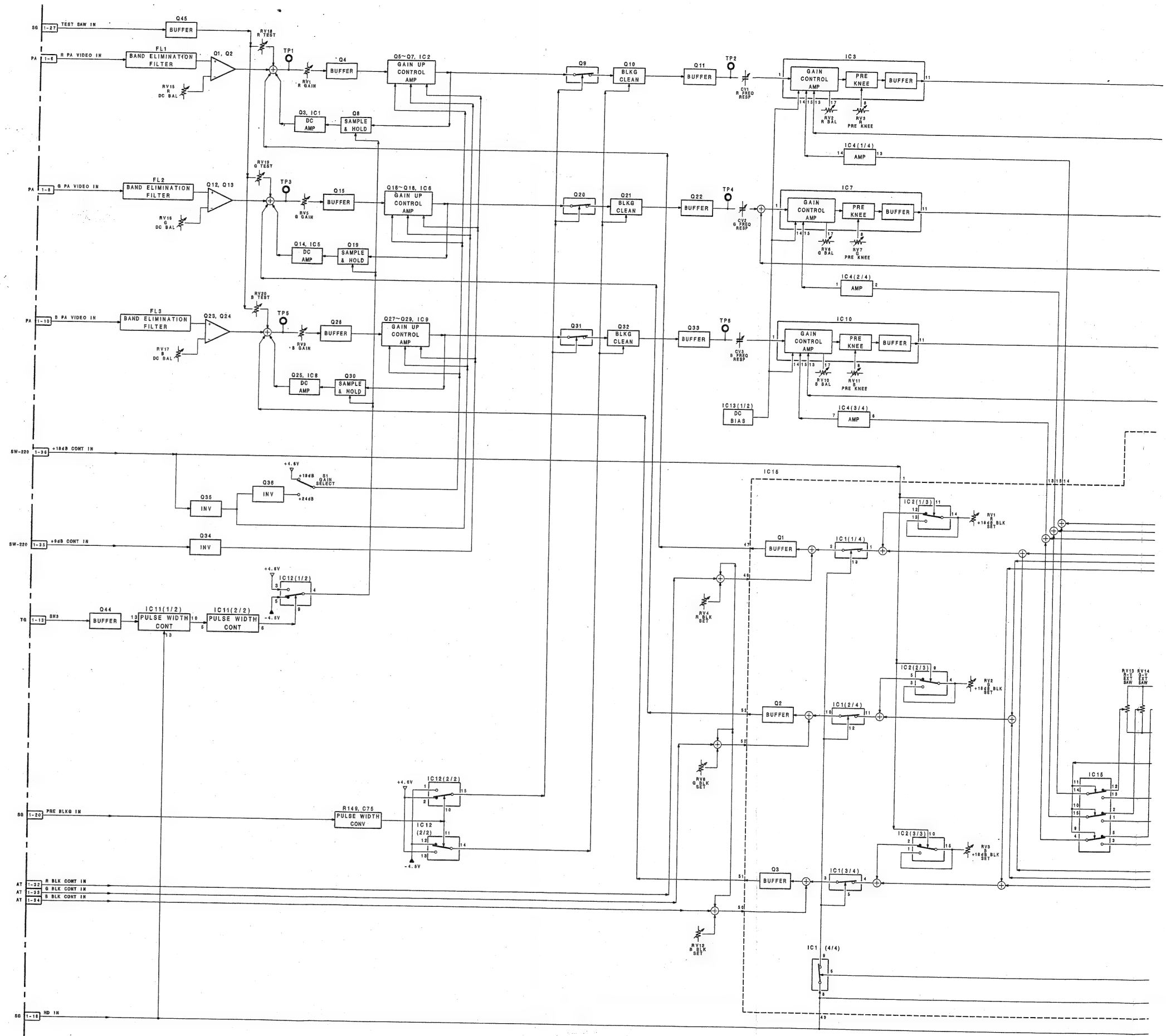
INTERFACE

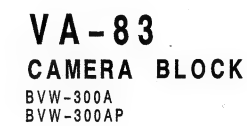


BVW-300A
BVW-300AP

VIDEO AMP, BLACK SET, COMPE

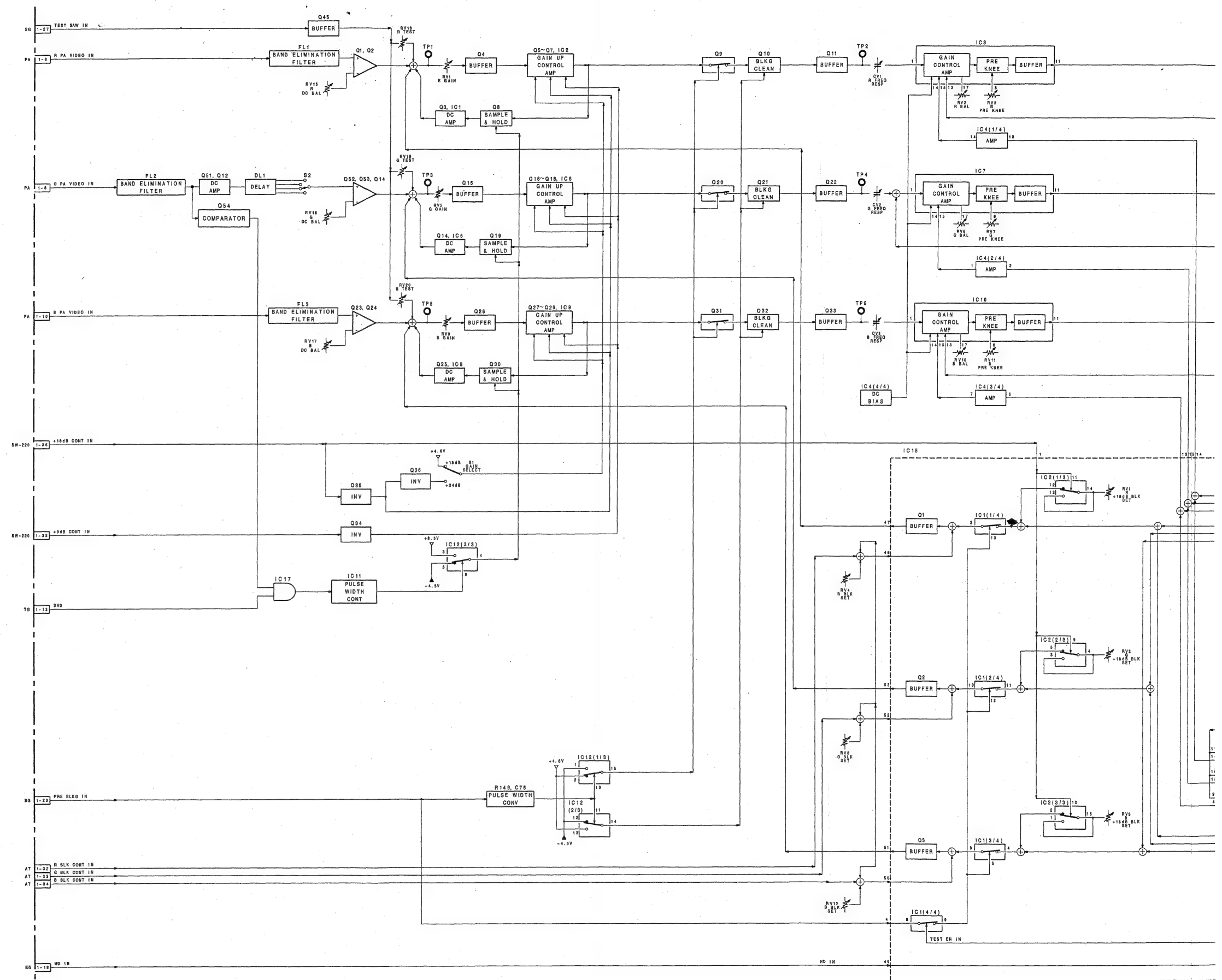
S/N J; 30886 through 31999
UC; 11638 through 12999
EK; 41954 through 43999

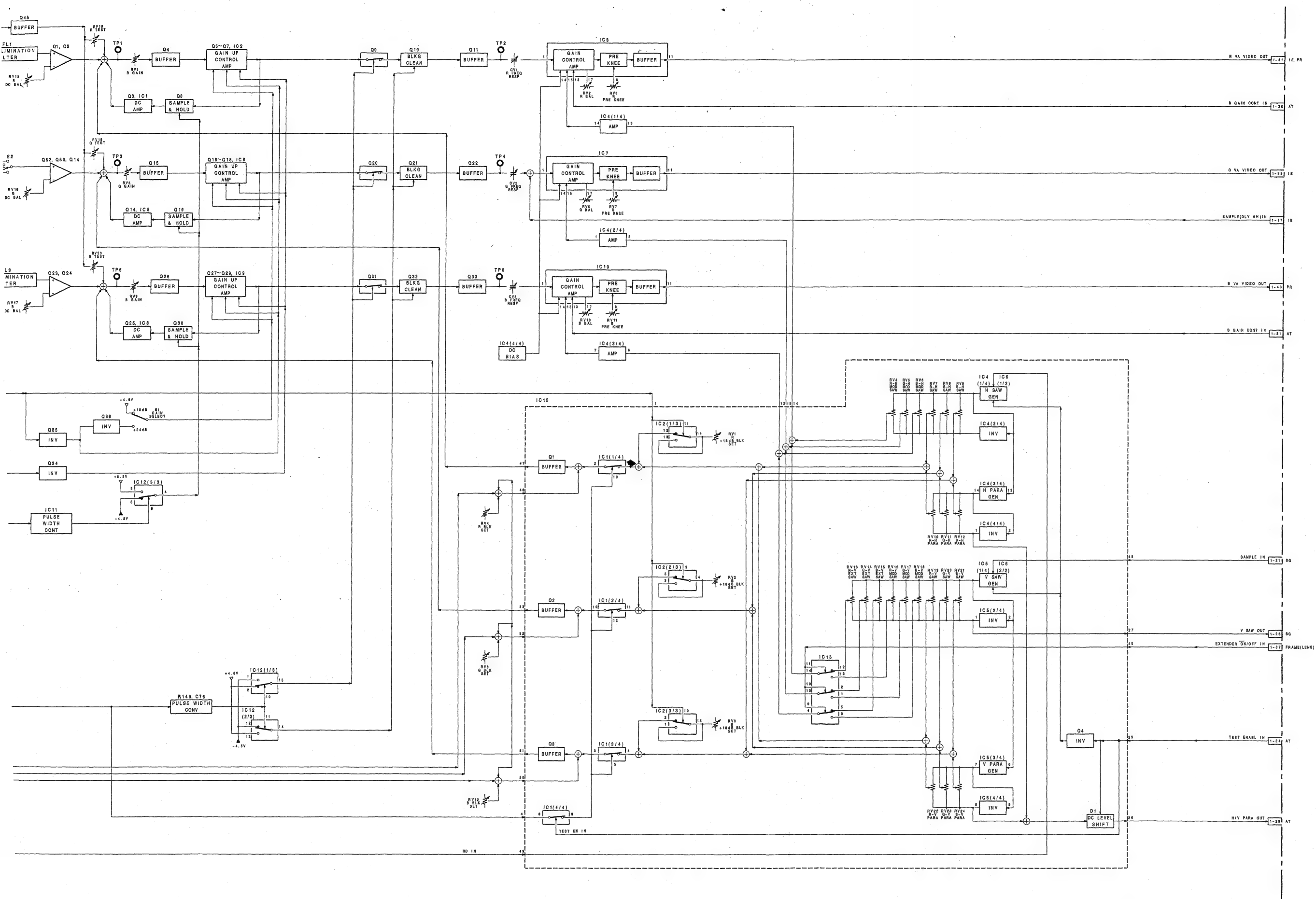




VIDEO AMP, BLACK SET, COMPE

S/N J;32001 and higher
UC;13001 and higher
EK;44001 and higher



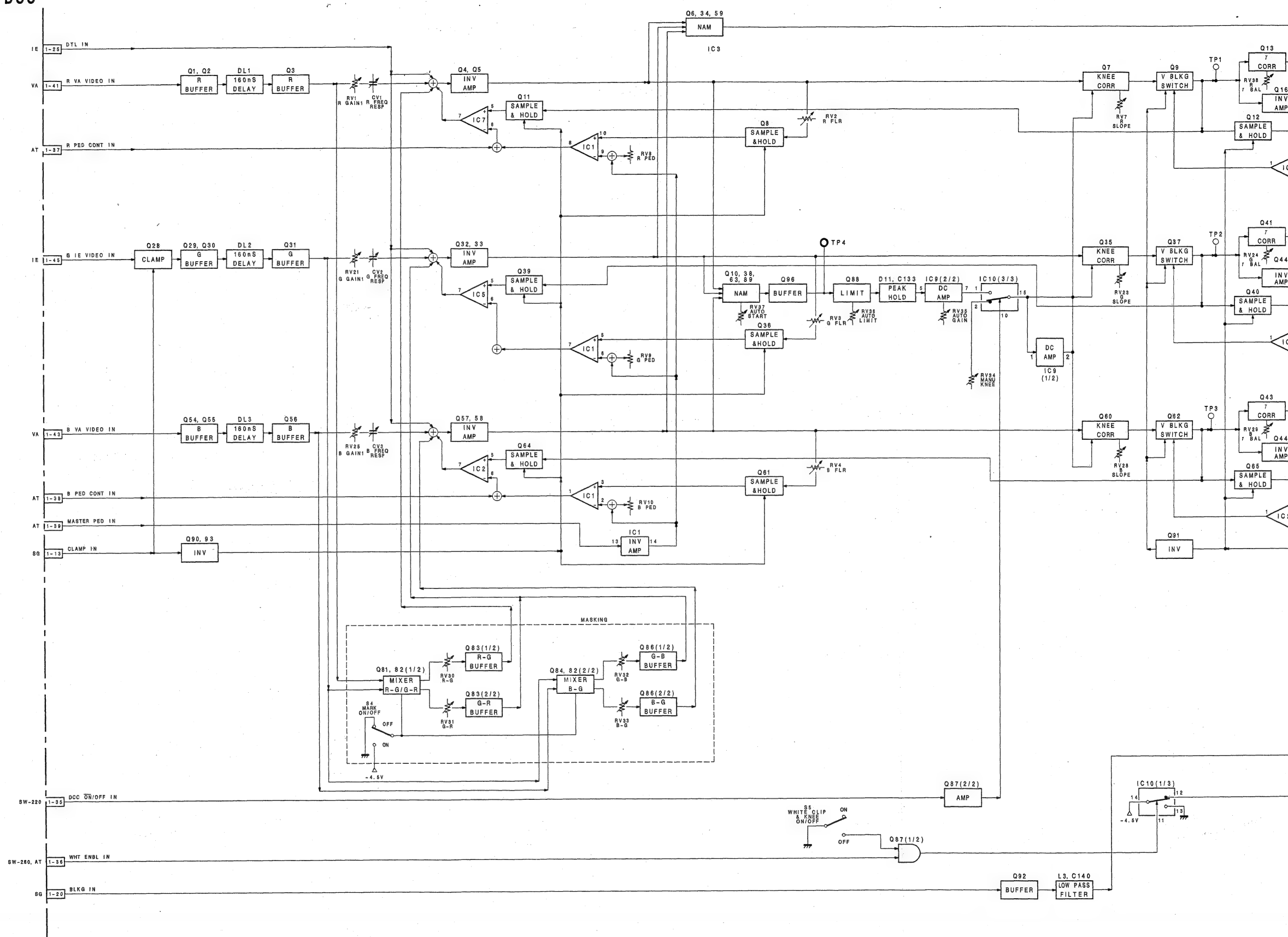


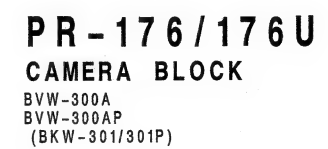
9-14(b)

9-15(b)

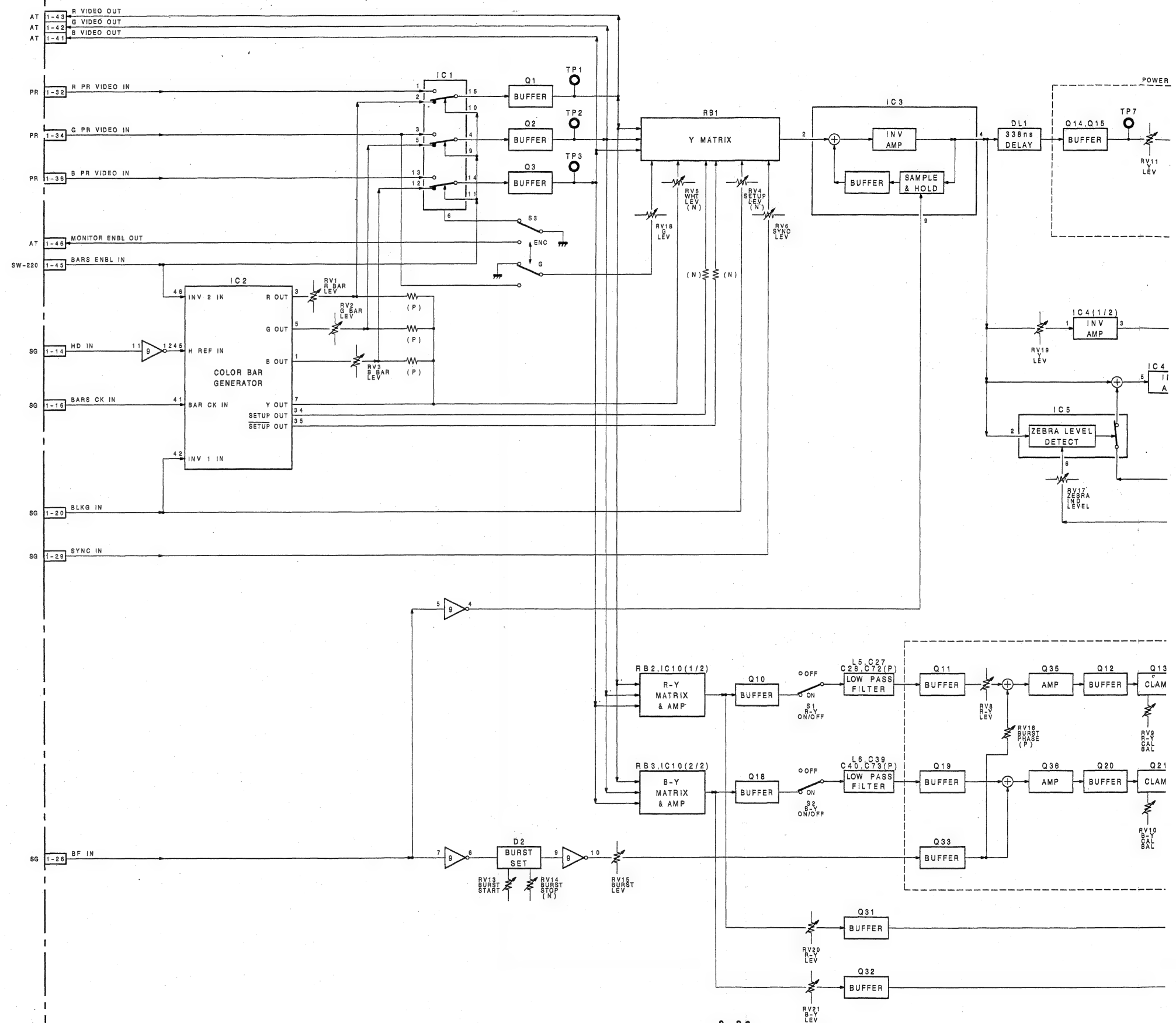
VA-168
CAMERA BLOCK
 BVW-300A
 BVW-300AP
 (BKW-301/301P)

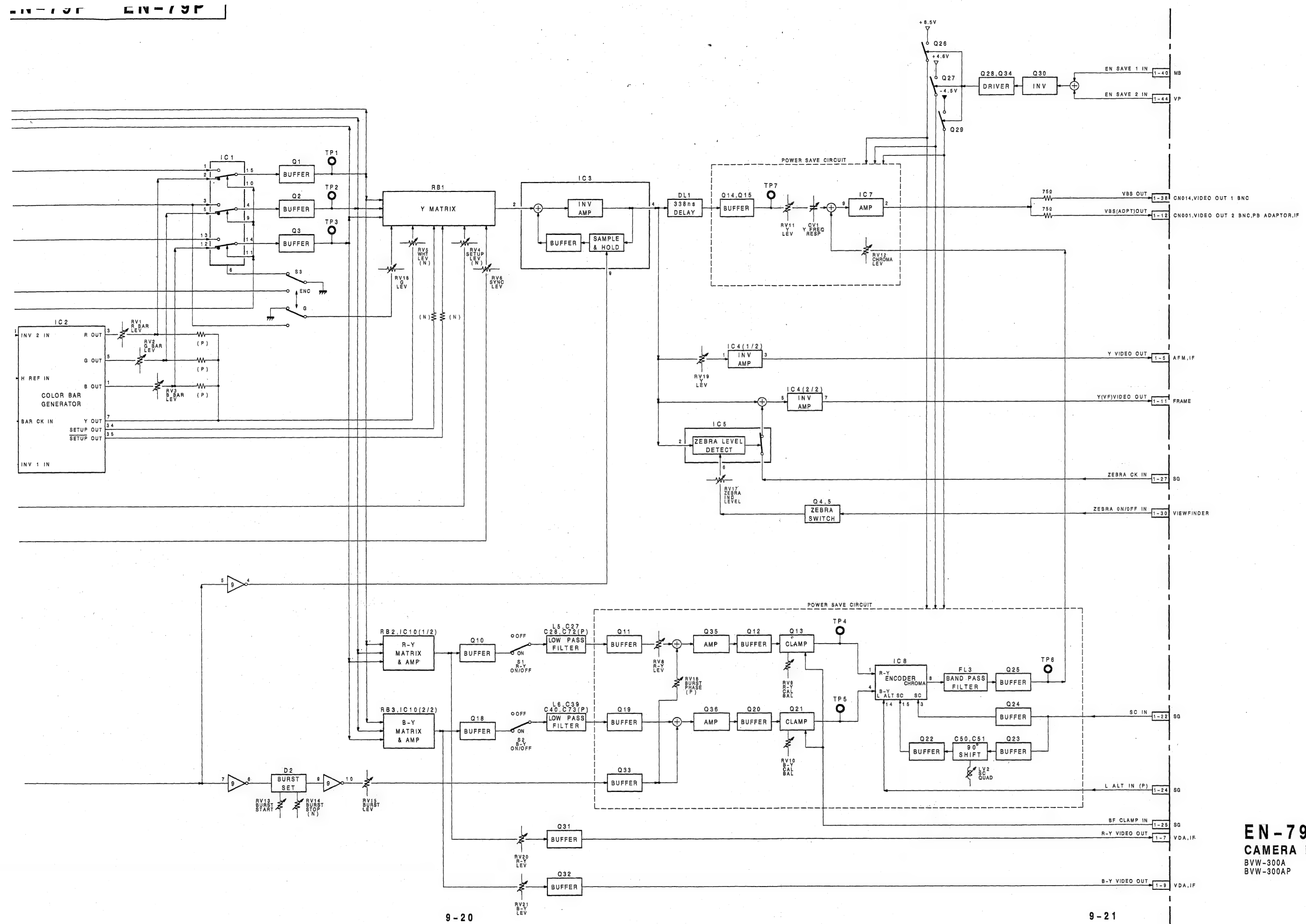
GAMMA, MASKING, KNEE, SLOPE, W CLIP, DCC





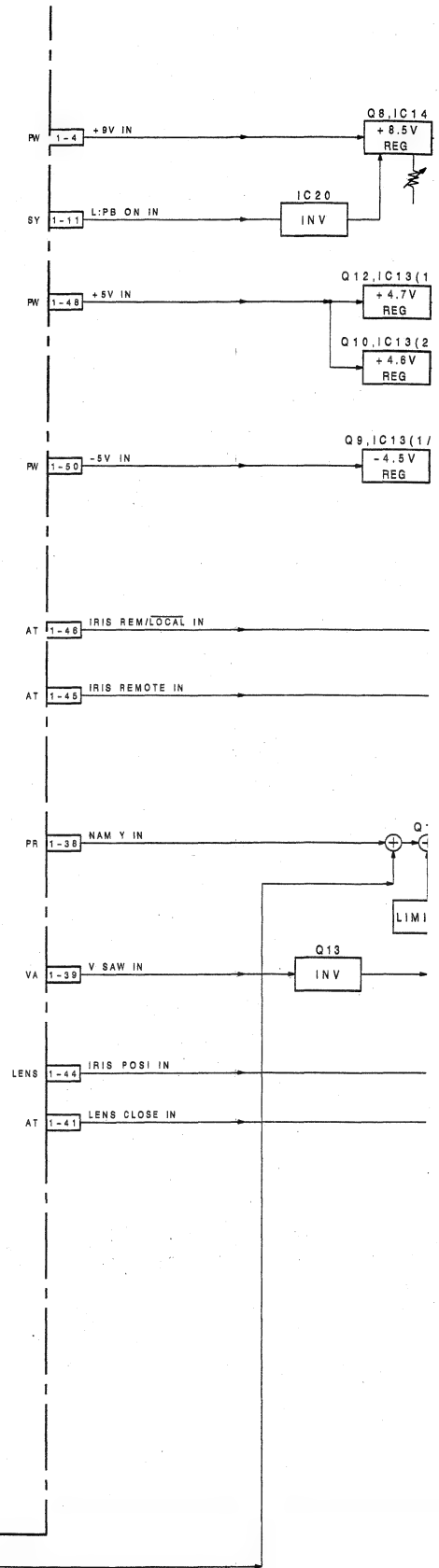
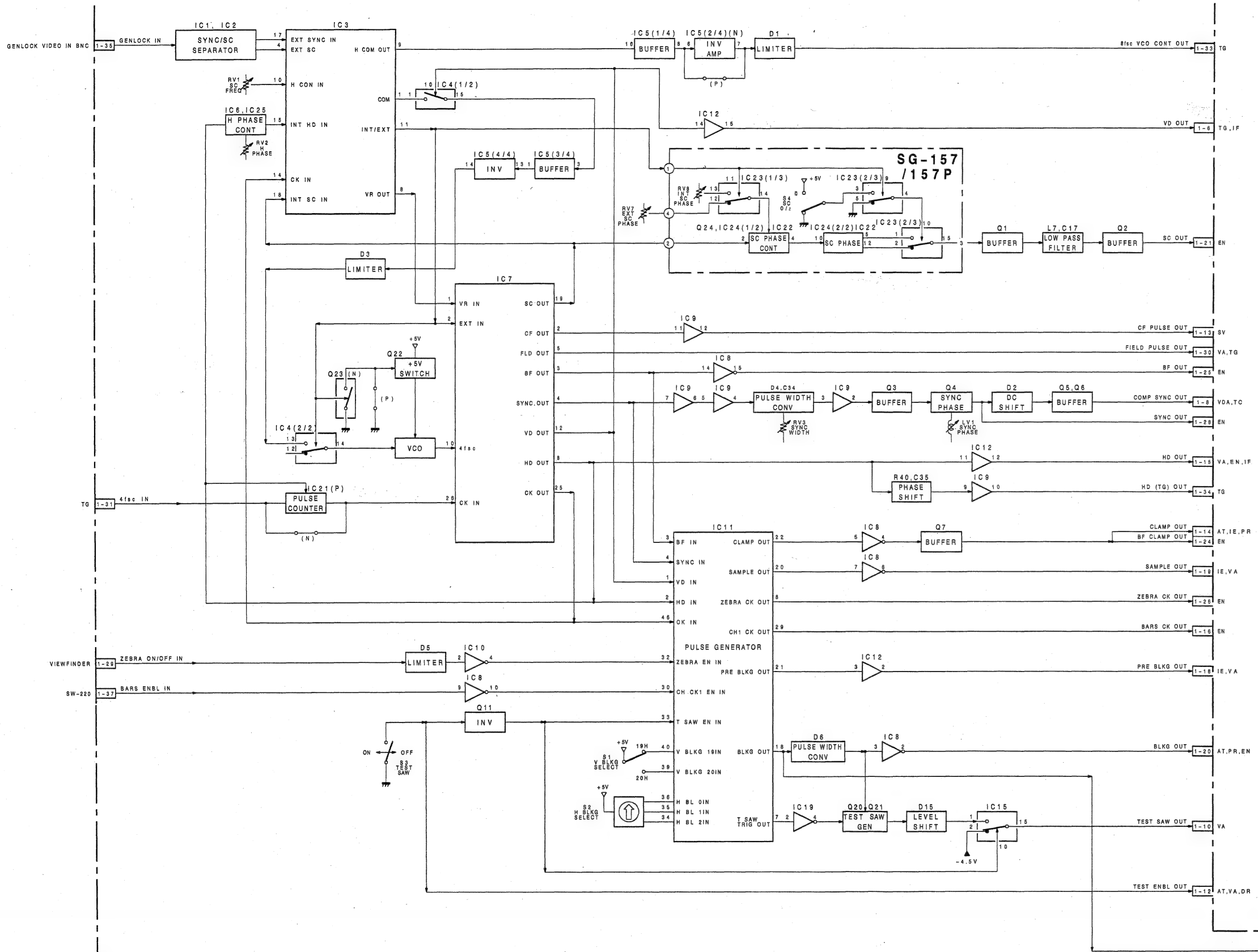
EN-79P EN-79P



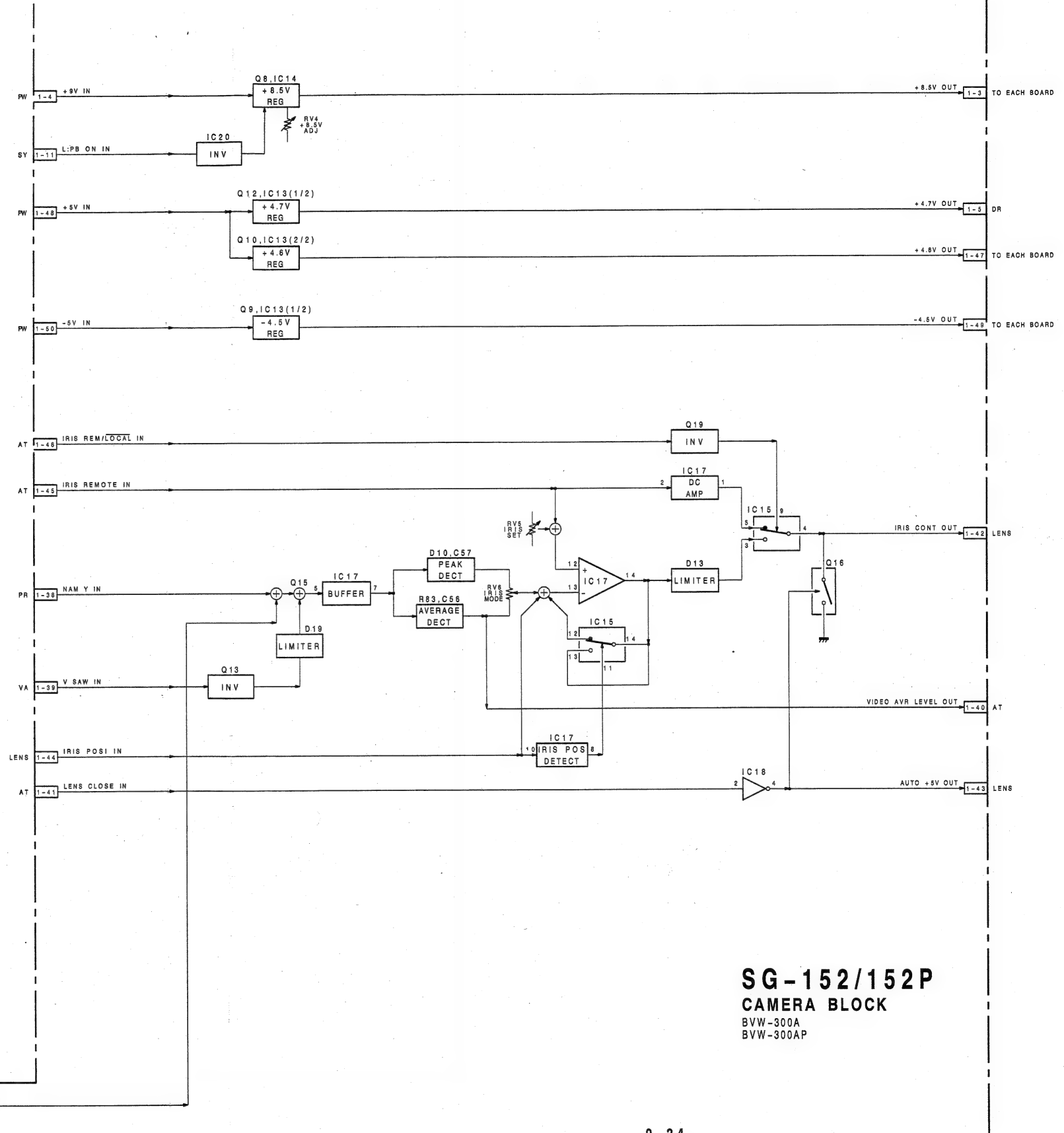
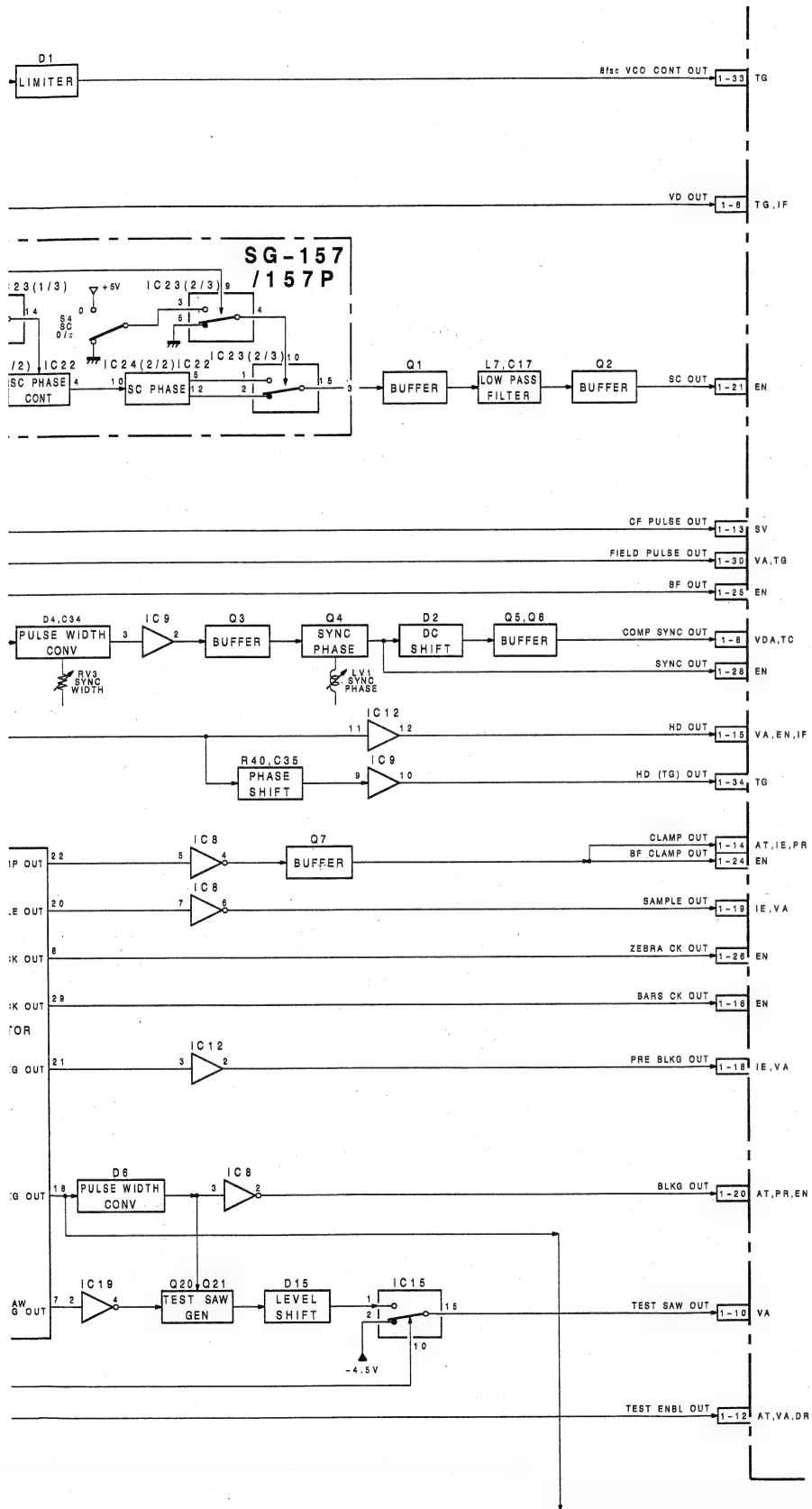


EN-79/79U/79P
CAMERA BLOCK
BVW-300A
BVW-300AP

SYNC GEN

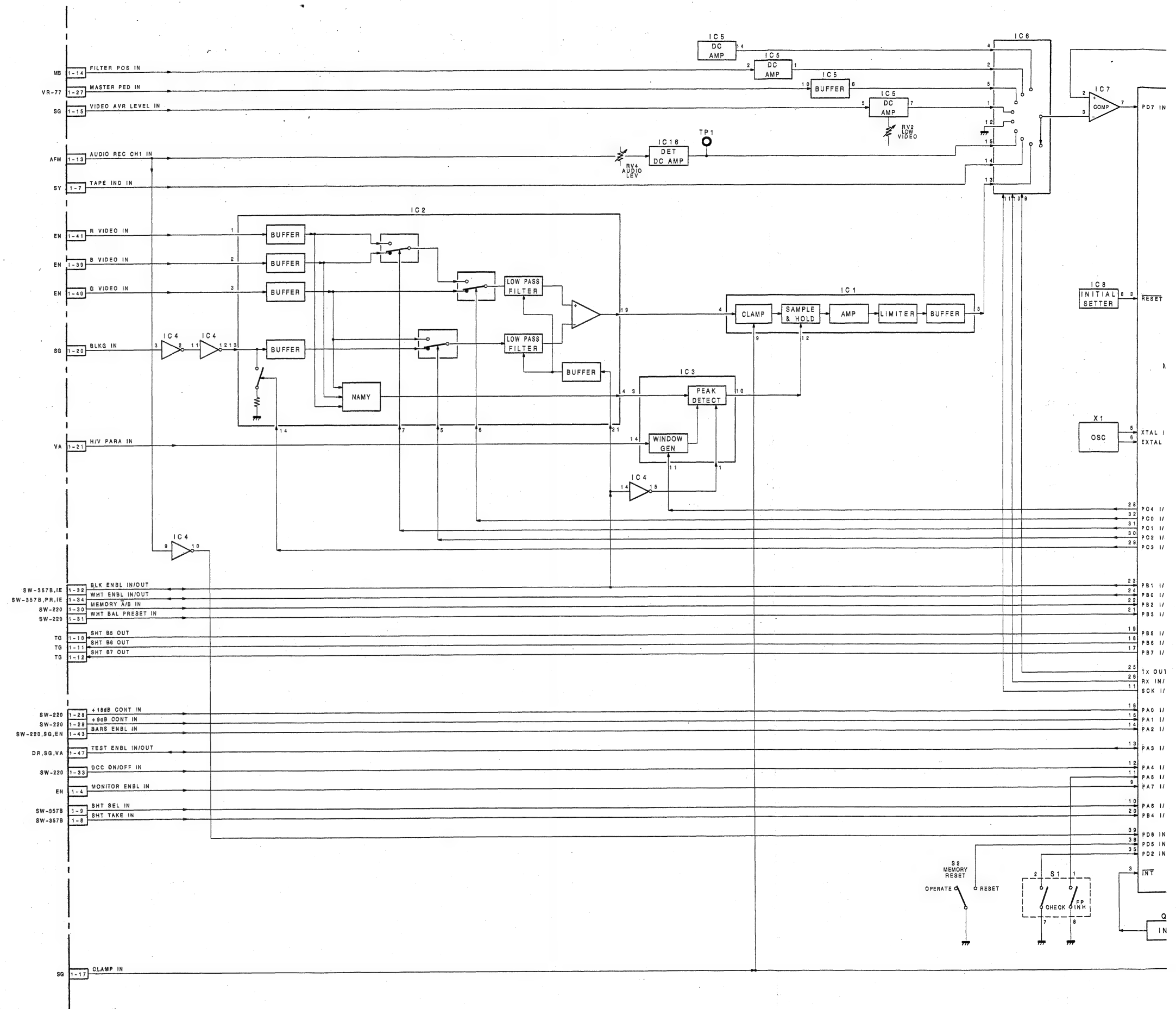


SG-152P SG-152P



SG-152/152P
CAMERA BLOCK
BVW-300A
BVW-300AP

AUTO W/B,CHARA GEN,SYS-CON

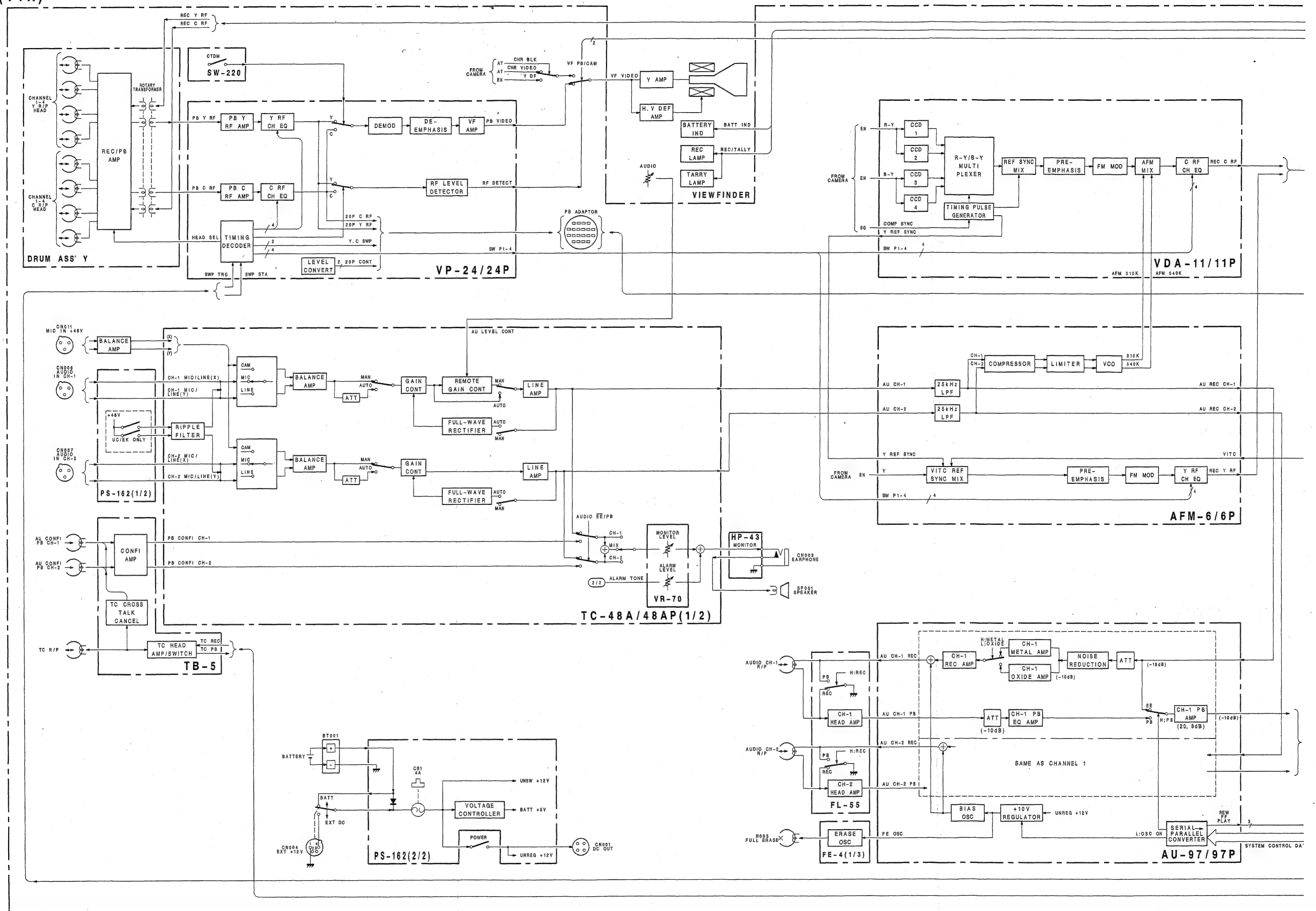




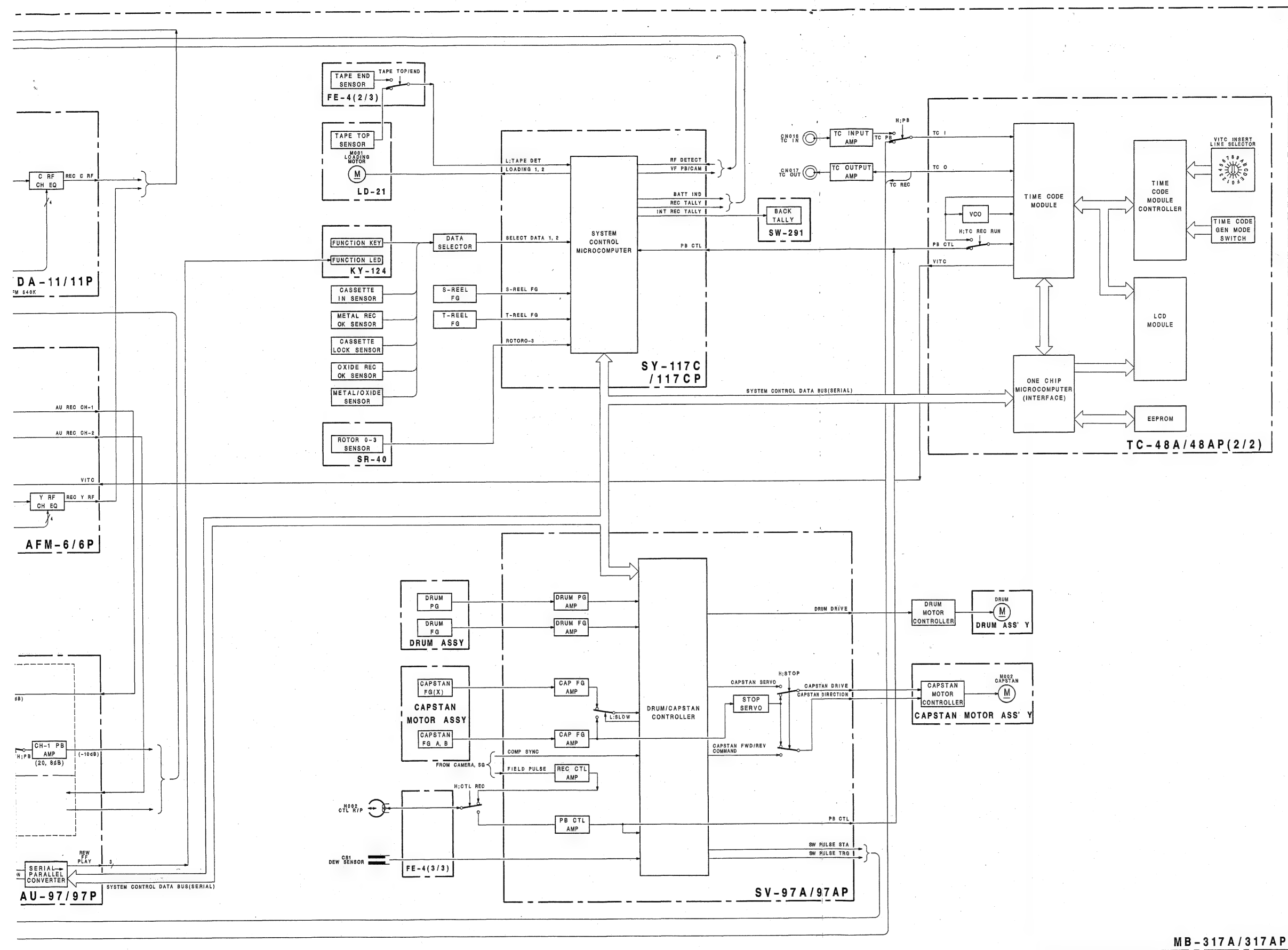
OVERALL(VTR) OVERALL(VTR)

OVERALL BLOCK DIAGRAM(VTR)

S/N;41954 through 44160



OVERALL(VTR) OVERALL(VTR)

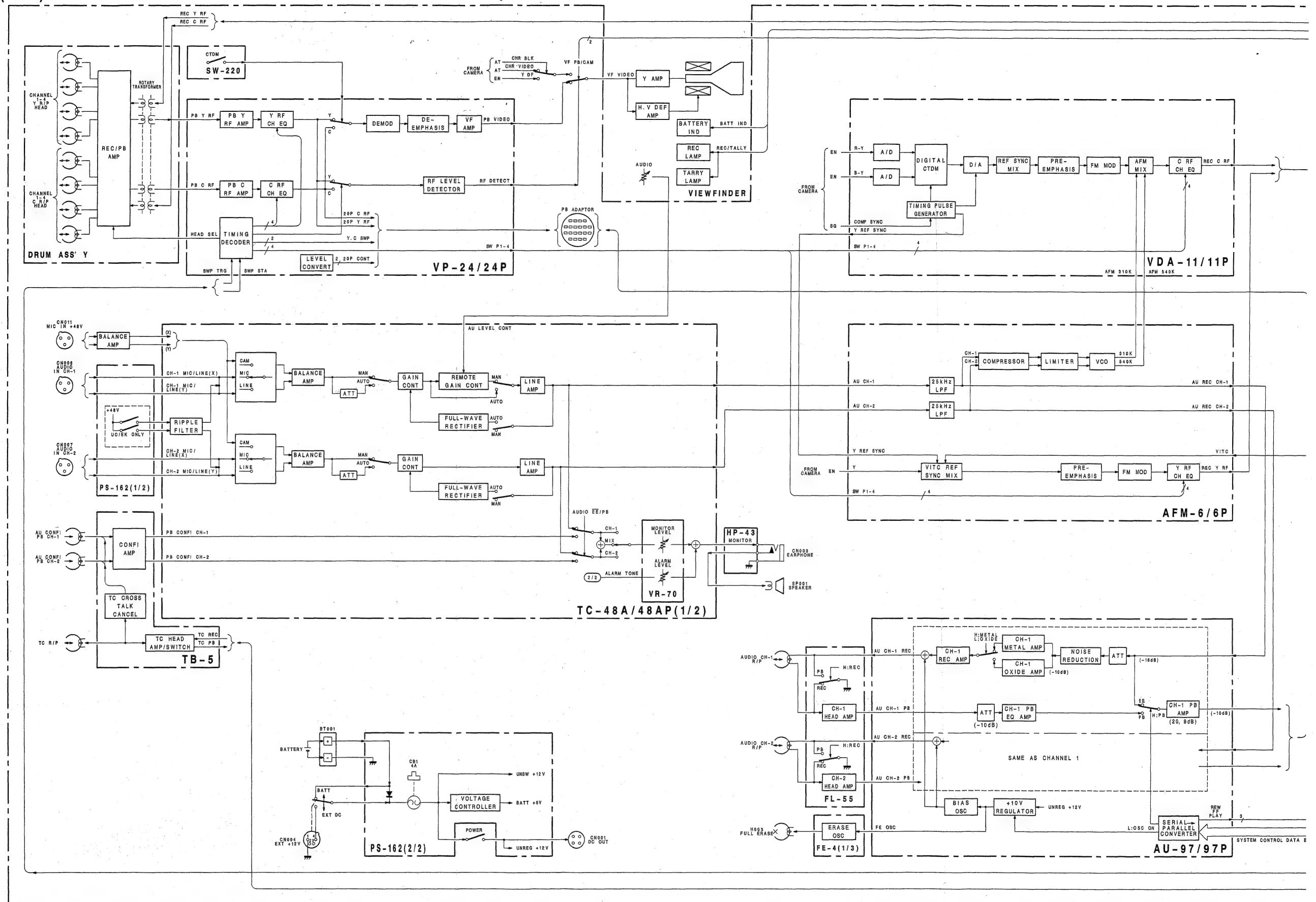


**OVERALL
VTR BLOCK**
BVW-300A
BVW-300AP

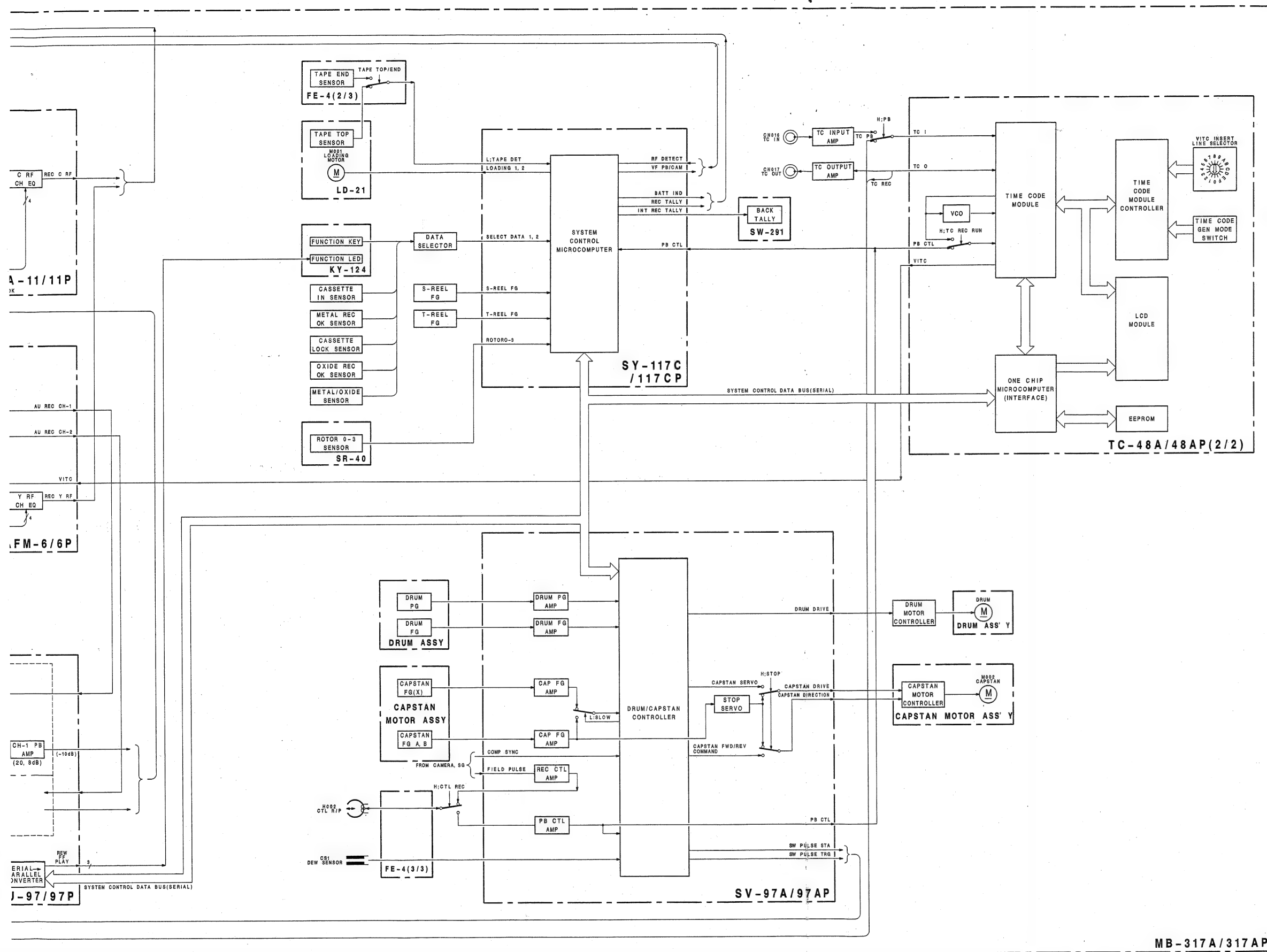
OVERALL(VTR) OVERALL(VTR)

OVERALL BLOCK DIAGRAM(VTR)

S/N;44161 and higher



OVERALL(VTR) OVERALL(VTR)



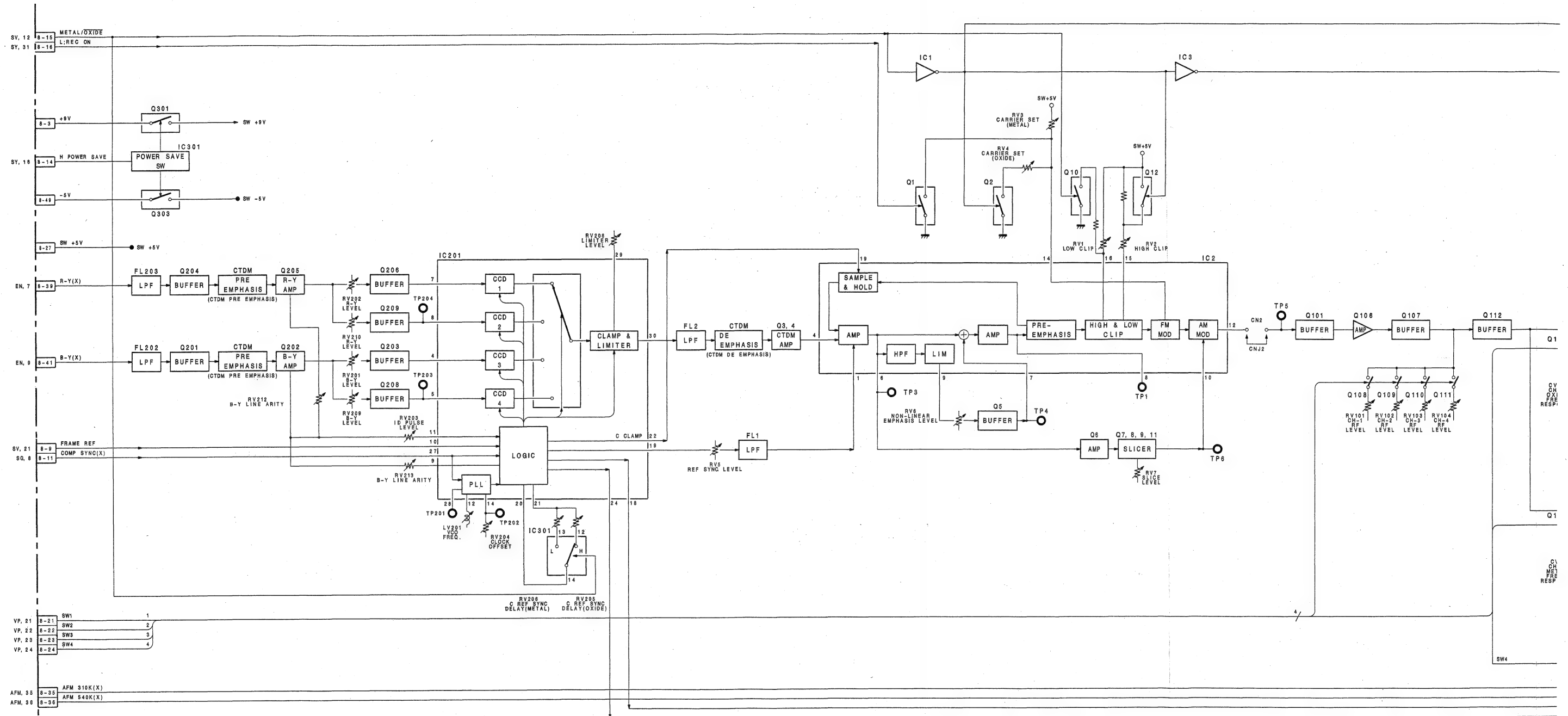
**OVERALL
VTR BLOCK**
BVW-300A
BVW-300AP

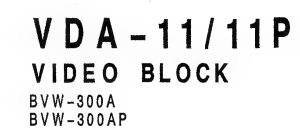
MB-317A/317AP

CTDM AND C-MODULATOR

S/N:41954 through 44160

VDA-11P VDA-11P

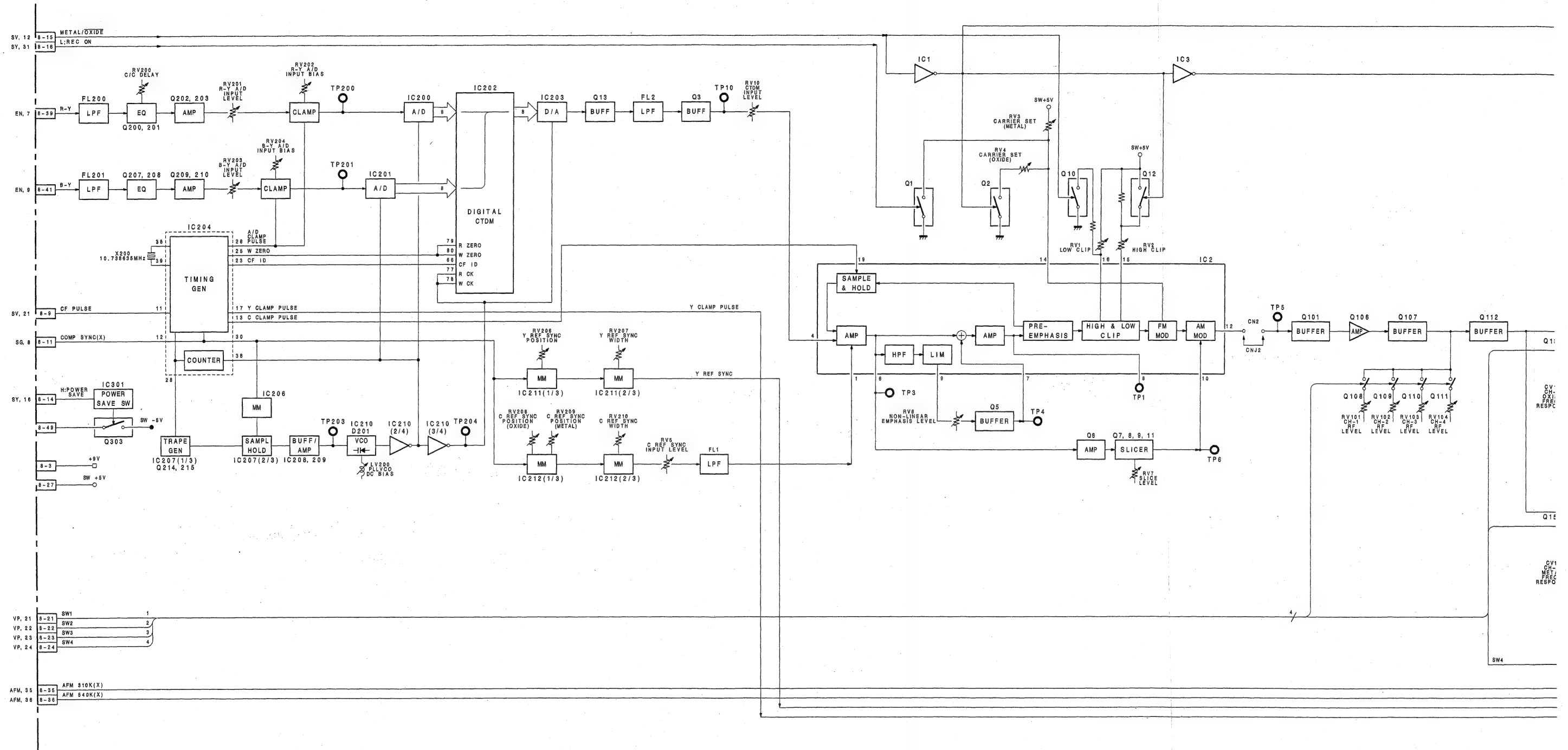


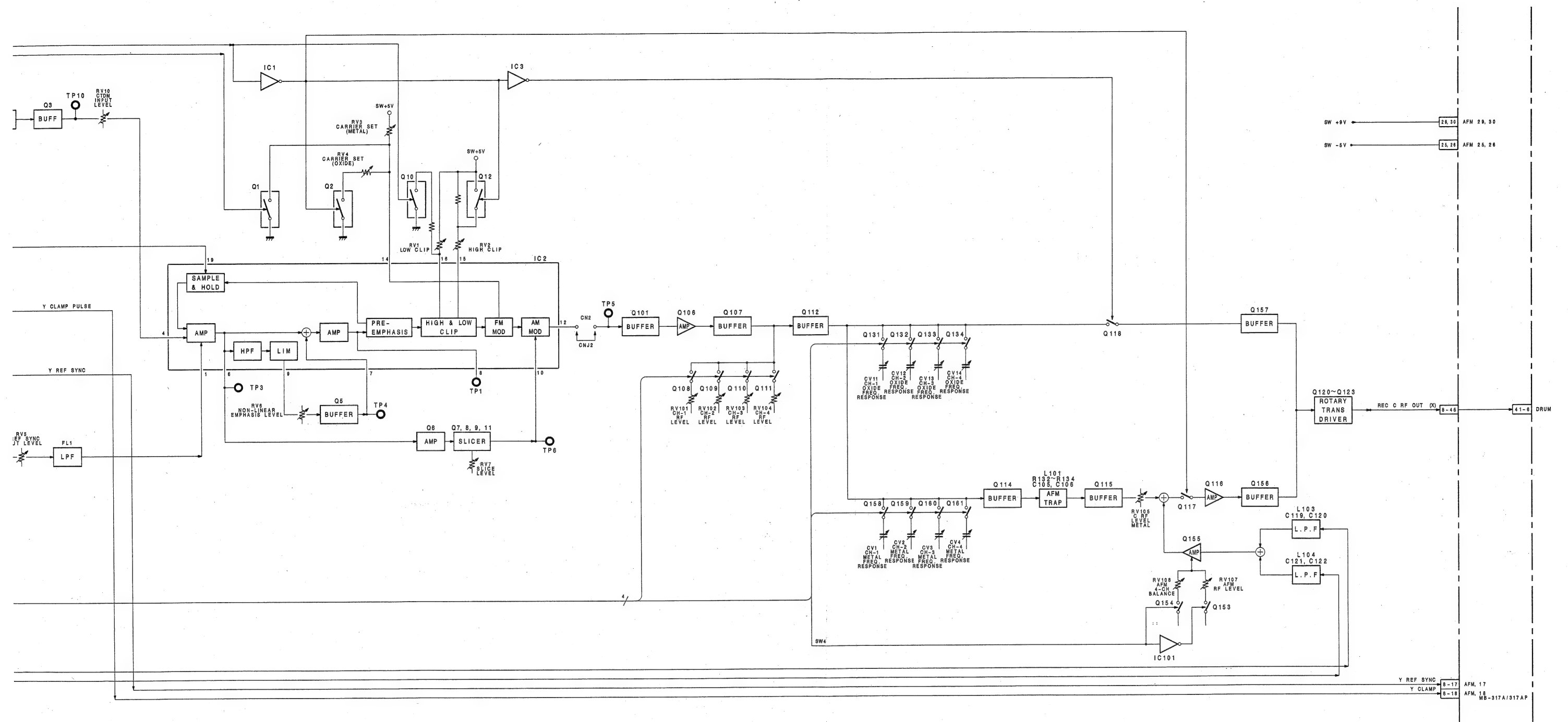


CTDM AND C-MODULATOR

S/N;44161 and higher

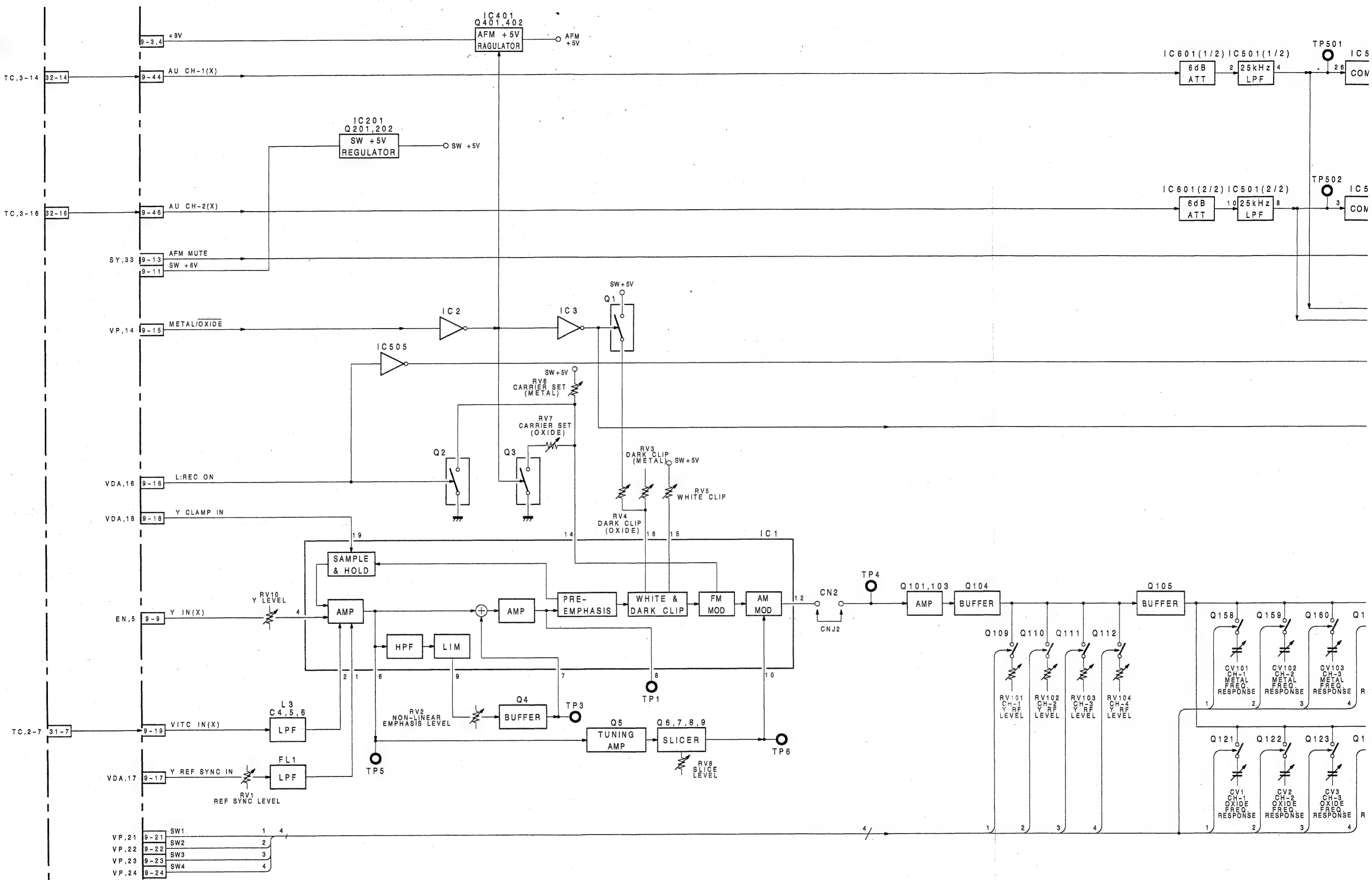
VDA-11P VDA-11P





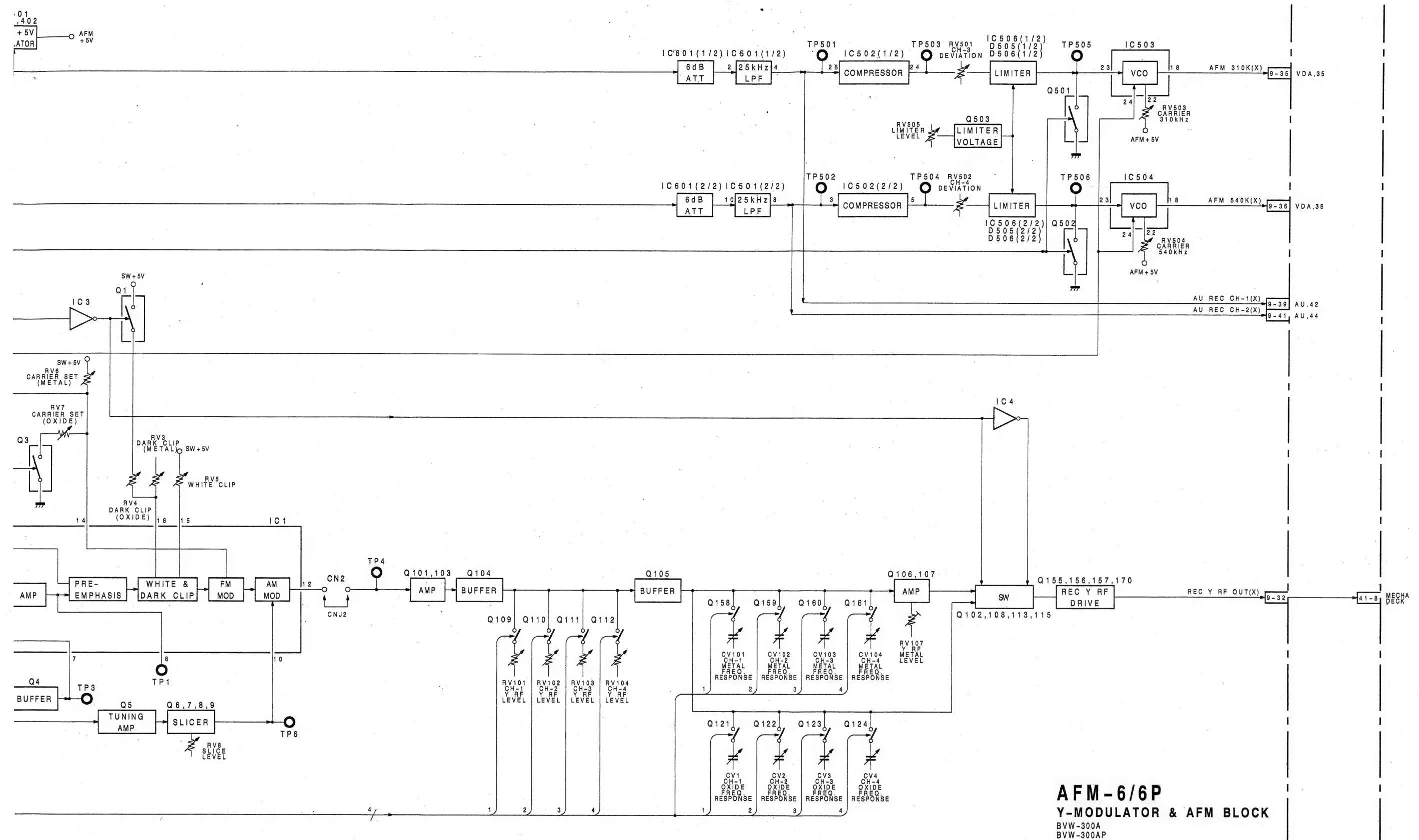
VDA-11/11P
VIDEO BLOCK
 BVW-300A
 BVW-300AP

Y-MODULATOR,AFM



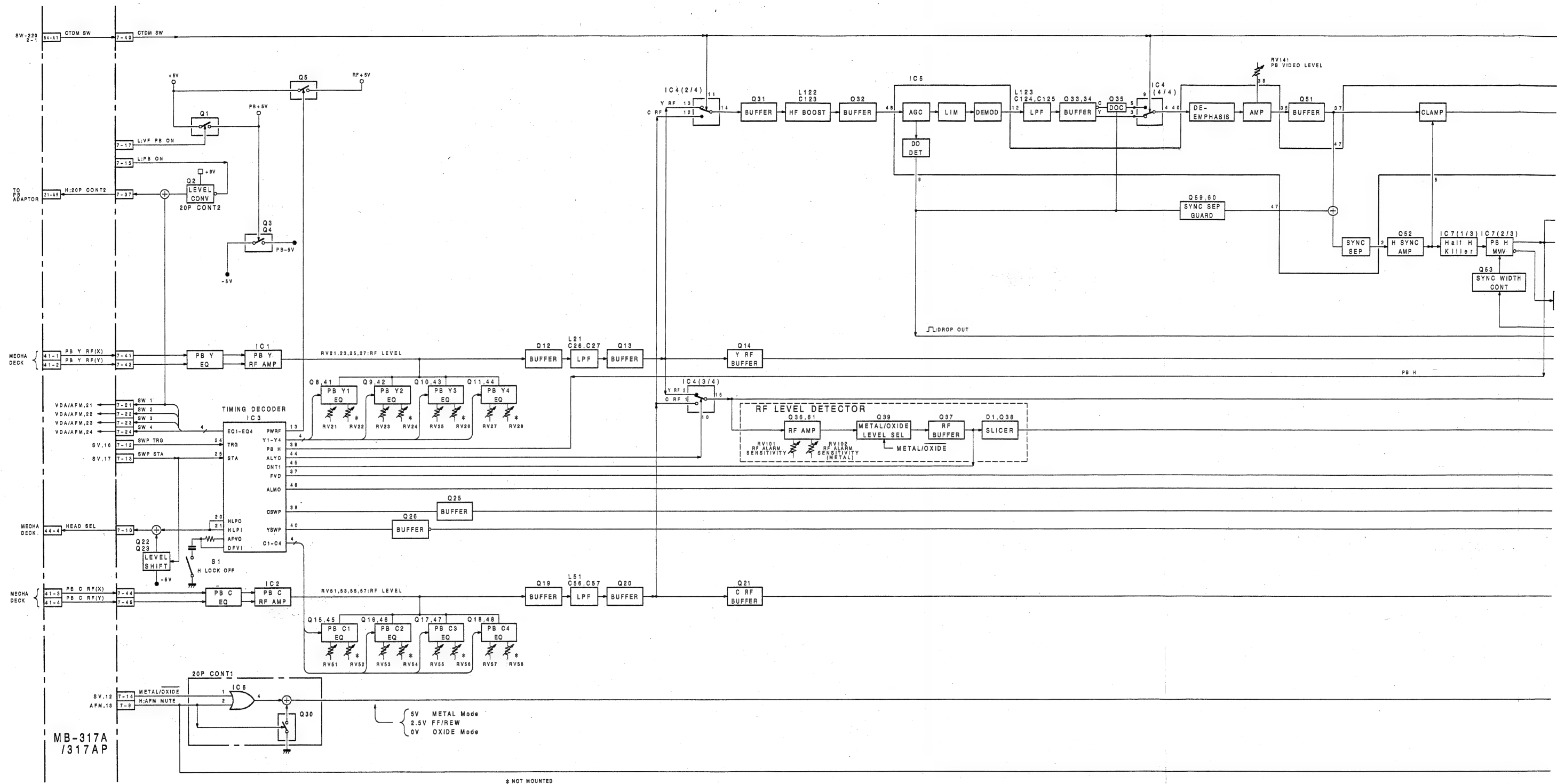
MB-317A/
317AP

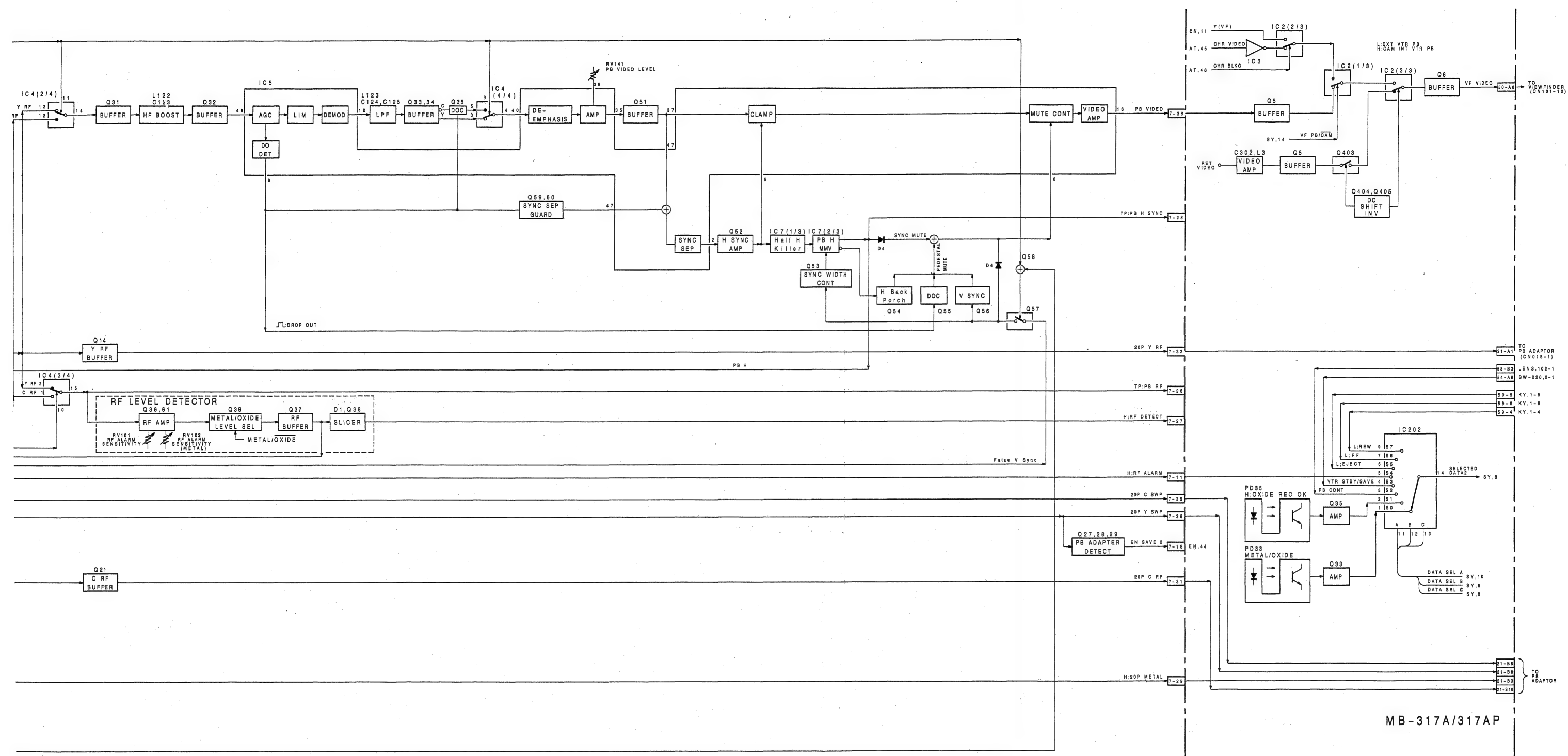
AFM-6P AFM-6P



AFM-6/6P
Y-MODULATOR & AFM BLOCK
BVW-300A
BVW-300AP

MB-317A/
317AP





MB-317A/317AP

VP-24/24P
VIDEO PLAY BACK
 BVW-300A
 BVW-300AP

The schematic diagram illustrates the MB-317P circuit, which is a two-channel audio recording and playback system. It is divided into two main channels, CH-1 and CH-2, each with its own set of input, processing, and output stages.

Channel 1 (CH-1) and Channel 2 (CH-2) Inputs:

- CH-1 Input:** AFM, 39 (1-42) AU REC CH-1(X) and SV, 12 (1-1) METAL/OXIDE.
- CH-2 Input:** AFM, 41 (1-44) AU REC CH-2(X) and SV, 12 (1-1) METAL/OXIDE.

Processing and Amplification:

- Dolby Processing:** Each channel has a Dolby processor (IC102(1/2) for CH-1, IC102(2/2) for CH-2) and a corresponding EQ amplifier (IC111(1/4, 2/4, 3/4, 4/4) for CH-1, IC211(1/4, 2/4, 3/4, 4/4) for CH-2).
- Recording Drivers:** Each channel has a recording driver (IC131(1/2) for CH-1, IC131(2/2) for CH-2) and a corresponding PB MUTE DRIVER (Q1, Q2 for CH-1, Q3, Q4 for CH-2).
- Playback Drivers:** Each channel has a playback driver (Q131, Q132 for CH-1, Q231, Q232 for CH-2) and a corresponding PB MUTE DRIVER (Q1, Q2 for CH-1, Q3, Q4 for CH-2).

Central Section:

- Relay Driver:** A relay driver (Q16, 17) is connected to the output of the recording drivers.
- Bias Oscillator:** A bias oscillator (Q14, Q15, CT1) provides a bias signal to the recording drivers.
- Regulator:** A +10V regulator (Q18, IC2) provides a stable bias voltage to the recording drivers.

Output and Control:

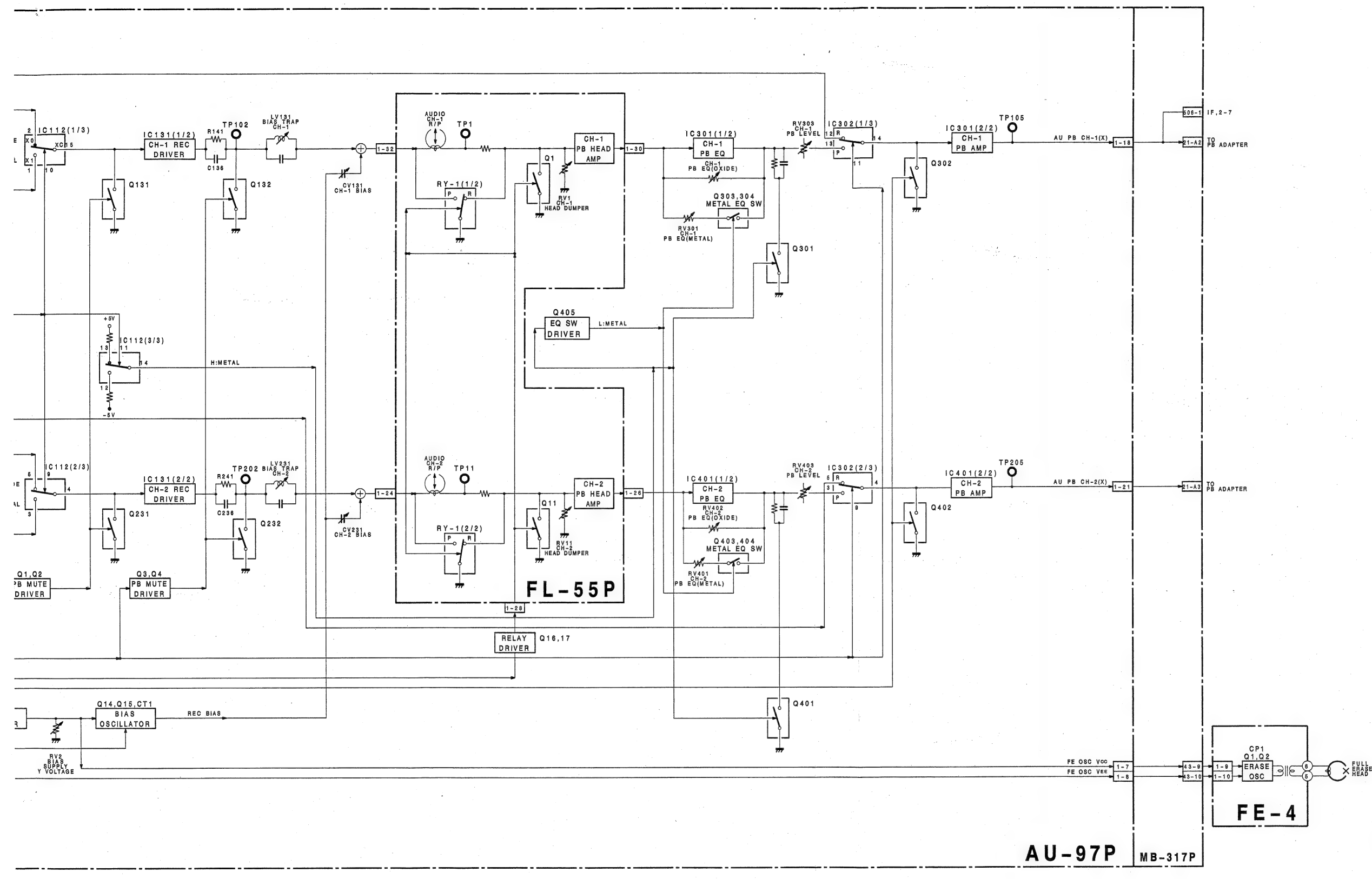
- Output:** The output of the recording drivers is connected to the output of the playback drivers (Q131, Q132 for CH-1, Q231, Q232 for CH-2).
- Control:** The circuit includes a TAPE MODE SWITCH (Q8, Q11) and an ERASE OSC CONTROLLER (Q12, Q13).

Pinout for IC1:

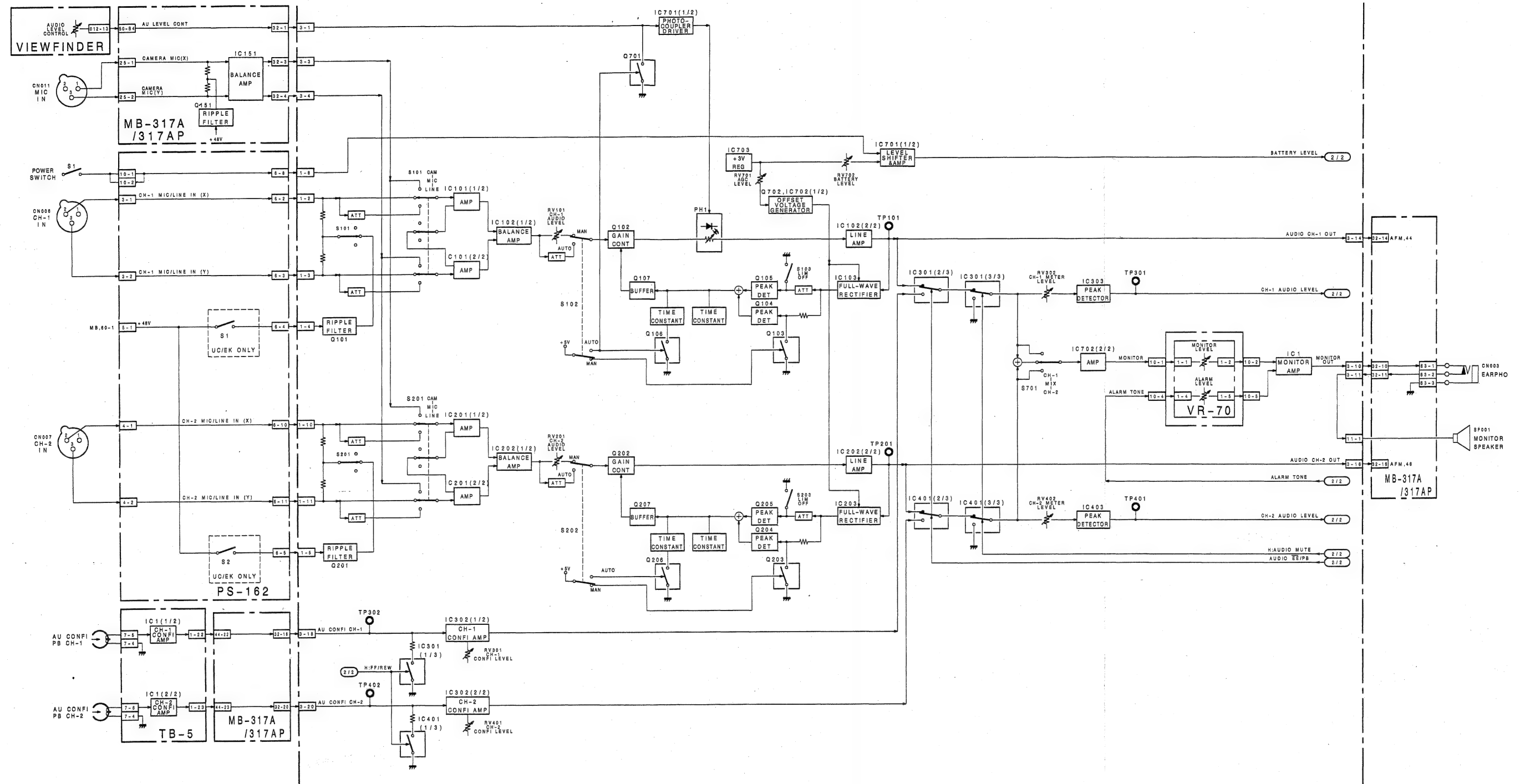
Pin	Signal
1	SET
2	DATA
3	CLK
4	STB
5	1-6 L:RESET
6	1-5 SYS S0
7	1-4 SYS SCK
8	1-3 H:AUDIO STB
9	1-2 H:REC
10	1-1 H:MUTE
11	1-13 L:OSC ON
12	1-14
13	1-15
14	1-16
15	1-17
16	1-18
17	1-19
18	1-20
19	1-21
20	1-22
21	1-23
22	1-24
23	1-25
24	1-26
25	1-27
26	1-28
27	1-29
28	1-30
29	1-31
30	1-32
31	1-33
32	1-34
33	1-35
34	1-36
35	1-37
36	1-38
37	1-39
38	1-40
39	1-41
40	1-42

Legend:

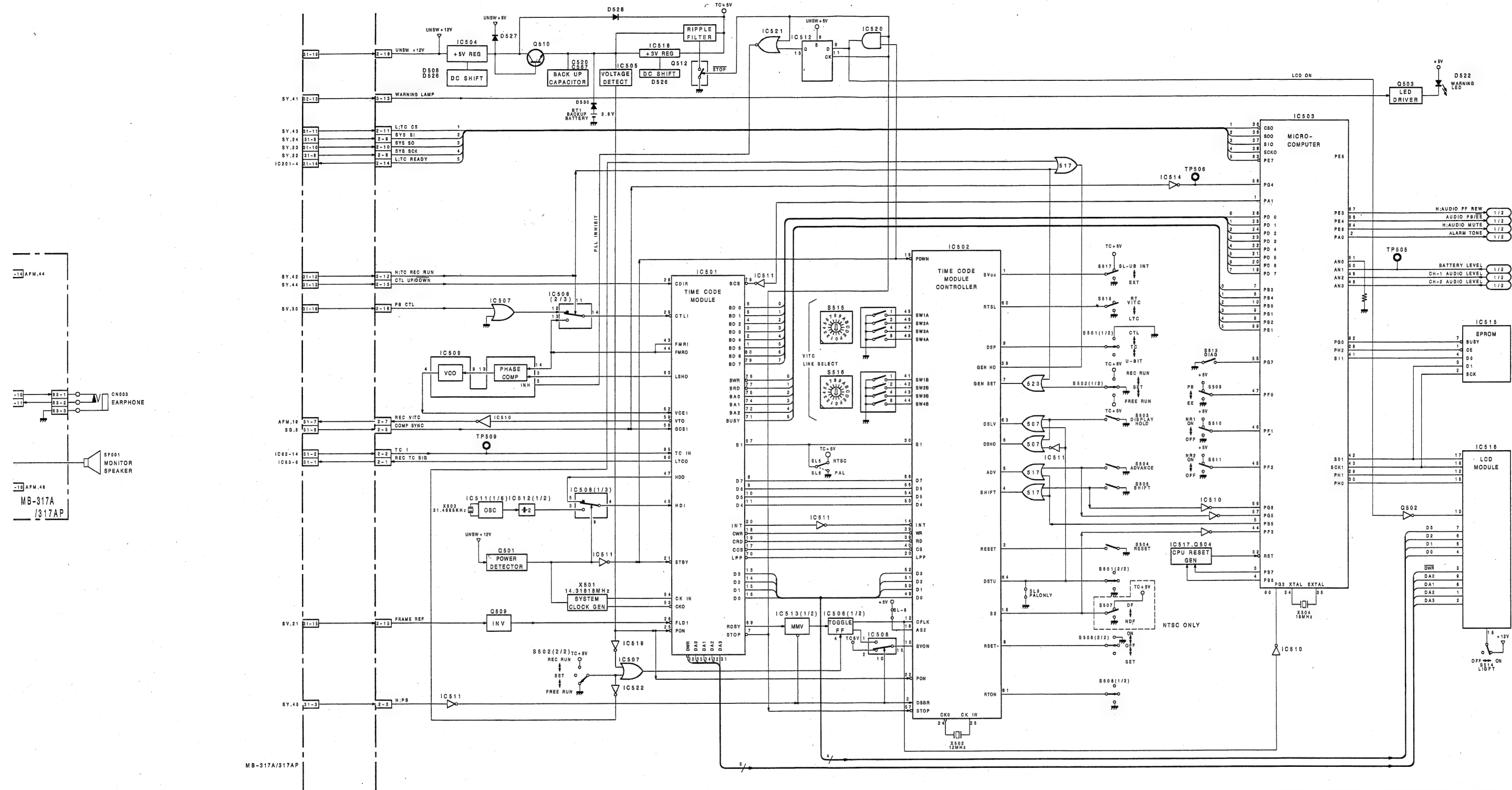
- 1-10 UNREG 12V
- 1-35 H:BIAS OFF FOR SERVICE (H = +5VDC, L = 0V)



TIME CODE, LEVEL CONTROL, MONITOR, SW, INDICATOR

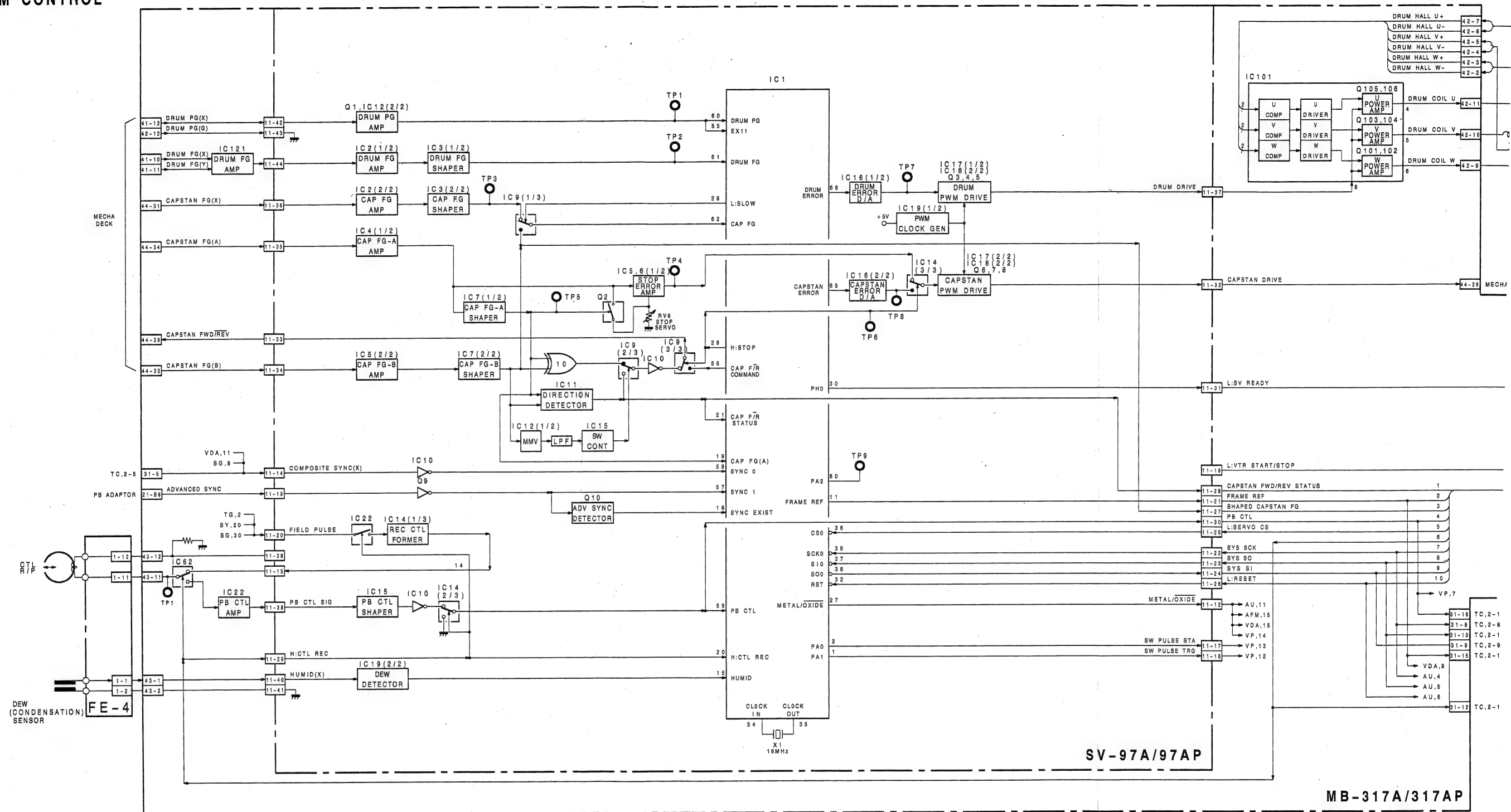


TC-48A/48AP(1/2)
AUDIO BLOCK
BVW-300A
BVW-300AP

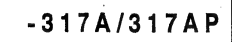


TC-48A/48AP(2/2)
TIME CODE BLOCK
BVW-300A
BVW-300AP

SERVO SYSTEM
SYSTEM CONTROL



SYS CON/SERVO SYS CON/SERVO

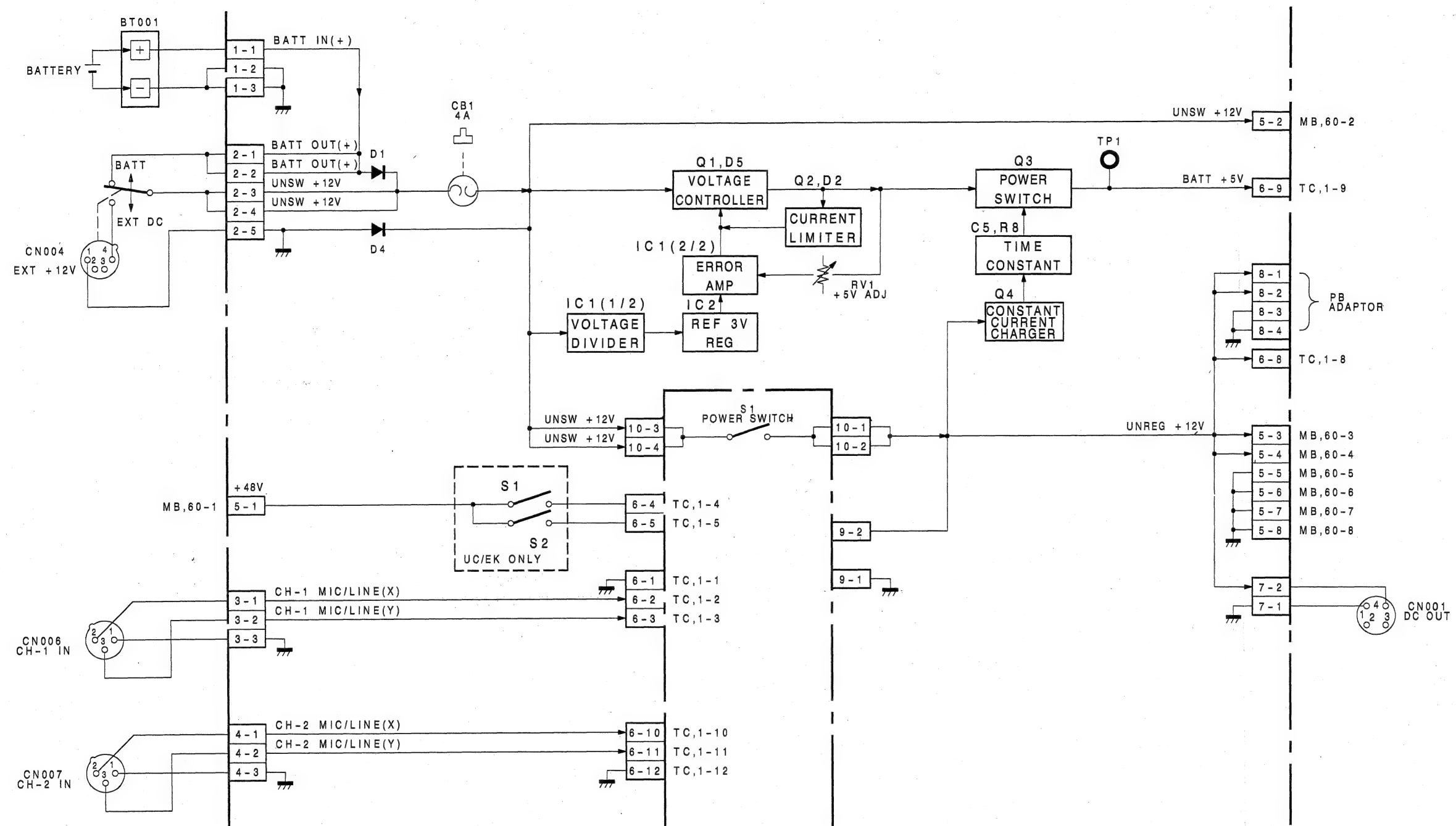


MB-317A/317AP

SYSCON/SERVO BLOCK

BVW-300A
BVW-300AP

POWER DISTRIBUTOR

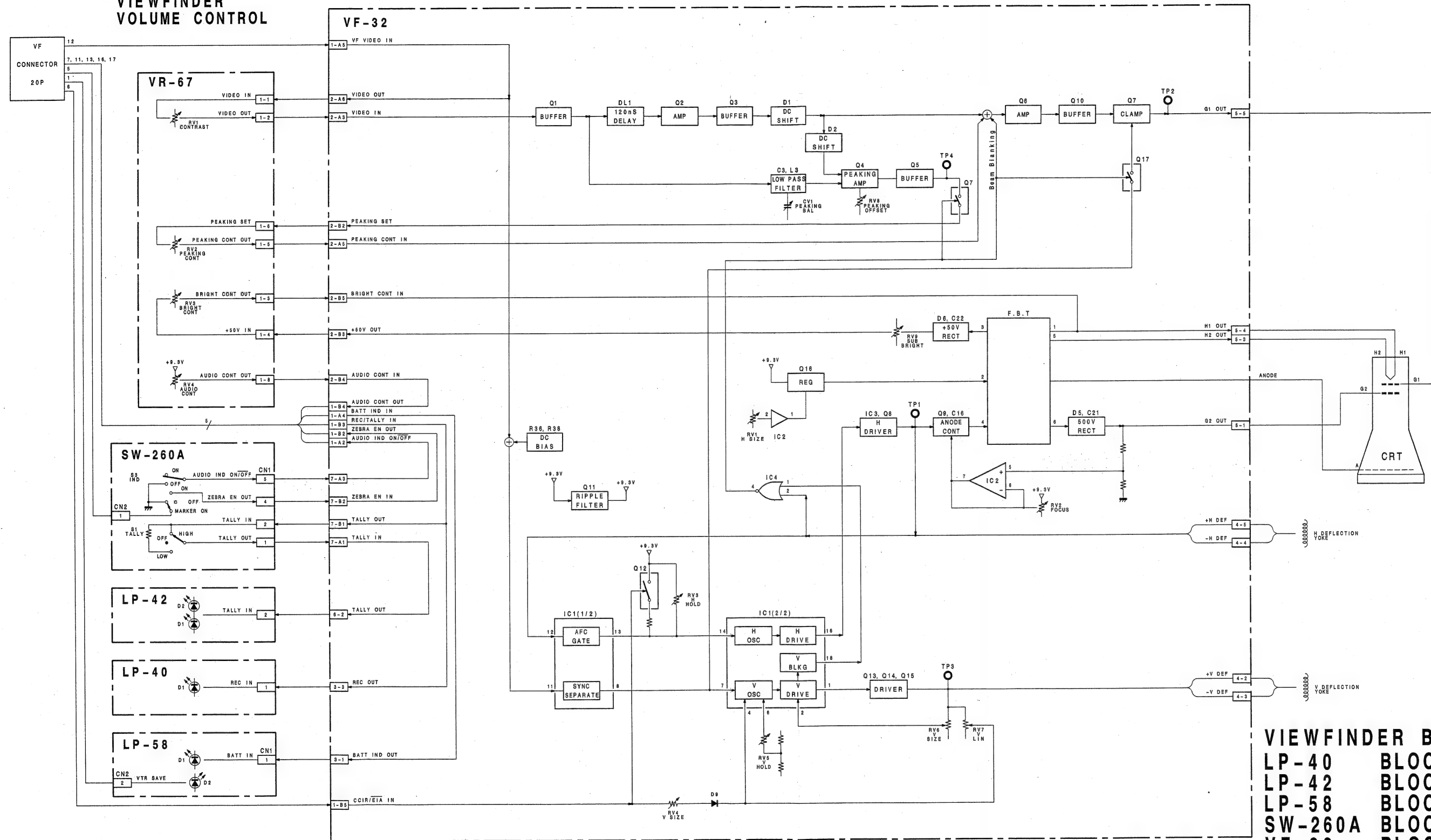


PS-162
POWER SUPPLY BLOCK
BVW-300A
BVW-300AP

VIEWFINDER VIEWFINDER

REC LED
BATT/TALLY, VTR SAVE LED
FRONT TALLY LED
SWITCH BOARD
VIEWFINDER
VOLUME CONTROL

S/N J:30886 through 31999
UC:11638 through 12999
EK:41954 through 43999



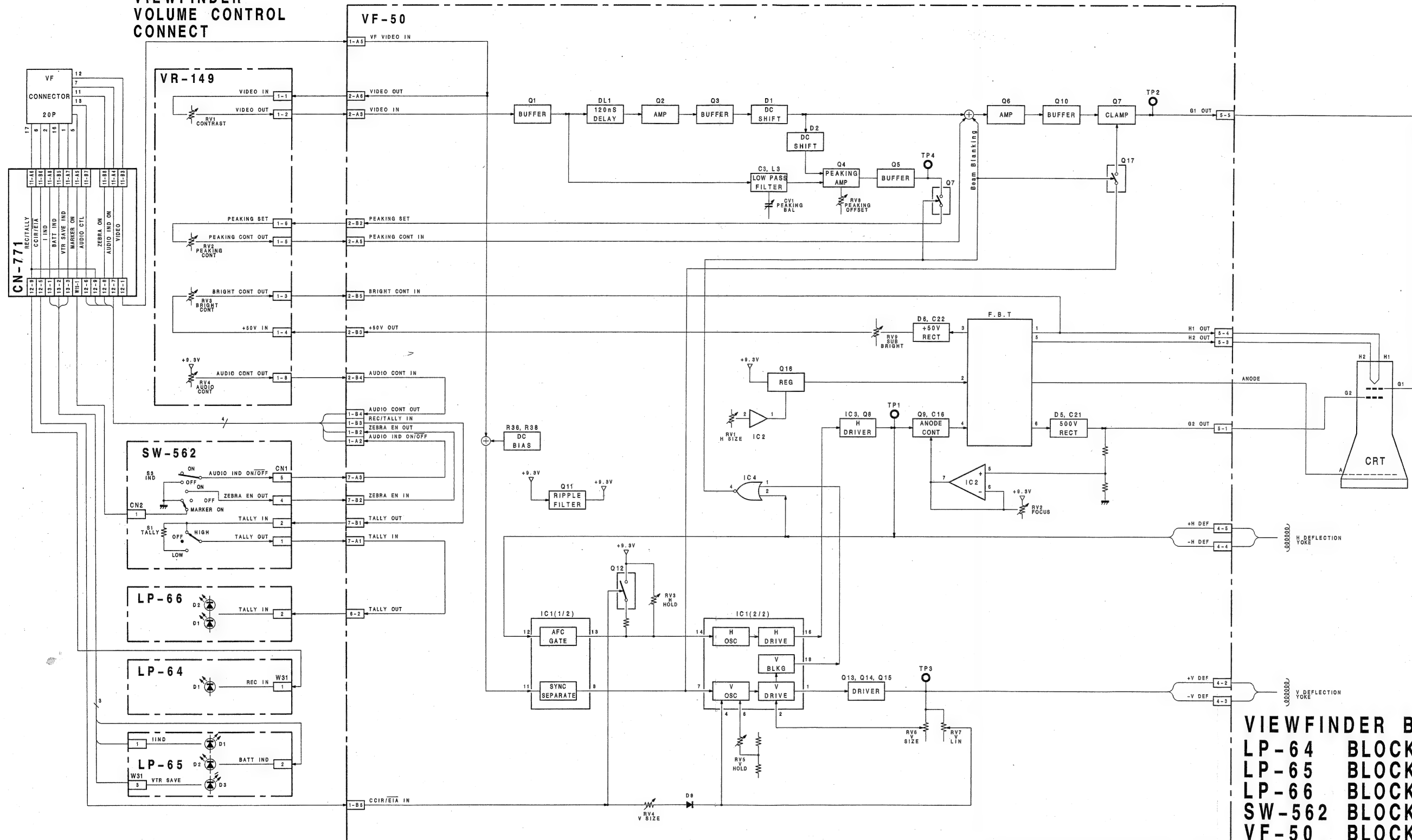
VIEWFINDER BLOCK
LP-40 BLOCK
LP-42 BLOCK
LP-58 BLOCK
SW-260A BLOCK
VF-32 BLOCK
VR-67 BLOCK

BVW-300A
BVW-300AP

VIEWFINDER VIEWFINDER

REC LED
BATT/TALLY, VTR SAVE LED
FRONT TALLY LED
SWITCH BOARD
VIEWFINDER
VOLUME CONTROL
CONNECT

S/N J:32001 and higher
UC:13001 and higher
EK:44001 and higher



VIEWFINDER BLOCK
LP-64 BLOCK
LP-65 BLOCK
LP-66 BLOCK
SW-562 BLOCK
VF-50 BLOCK
VR-149 BLOCK
CN-771 BLOCK

BVW-300A
BVW-300AP

SECTION 10

SEMICONDUCTOR ELECTRODES

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表わしたものです。したがって互換性を表わすものではありません。(互換性のない型名が併記されている事もあります。) 部品の交換をする時は、SPARE PARTSの章を参照して下さい。

ICs, transistors and diodes whose functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

IC	PAGE	IC	PAGE	IC	PAGE
AD707JR	10-3	LA7205M	10-28	S-8054HN-CB	10-33
AN6391NS	10-3	LM35DZ	10-29	S-8123OAG-RB	10-33
AN6701S	10-3	LM2903M	10-29	SBX1588	10-33
		LM2904M	10-29	SN74HC00NS	10-33
BX1040	10-3			SN74HCU04ANS ...	10-30
BX1179	10-3	M5236L	10-30	SN74HC244NS	10-33
BX1356	10-3	M5237ML	10-30	SN74HC574NS	10-33
		MB7114LPF	10-30	SN74HC14NS	10-33
CX518	10-4	MC14011BF	10-30	SN74LS123NS	10-34
CX20030	10-4	MC14013BF	10-30		
CX20099	10-5	MC14046BF	10-30	TC4013BF	10-34
CX22017	10-5	MC14050BF	10-34	TC4023BF	10-34
CX7930A	10-5	MC14051BF	10-31	TC4030BFHB	10-34
CX7968A	10-7	MC14053BF	10-31	TC4049BF	10-34
CX7969	10-8	MC14069UBF	10-31	TC4050BF	10-34
CXA1065M	10-9	MC14070BF	10-31	TC4053BFHB	10-31
CXA1127M	10-10	MC14071BF	10-31	TC40H004F	10-34
CXD1035BQ	10-11	MC14081BF	10-31	TC40H241F	10-34
CXD1141M	10-10	MC14538BF	10-31	TC4512BF	10-34
CXD1216M	10-16	MC74HC4053F	10-32	TC4S01F	10-35
CXD1217M	10-16	MC74HC4538F	10-32	TC4S11F	10-35
CXD1128Q	10-17	MN1237AD	10-32	TC4S30F	10-35
CXD1132Q	10-18			TC4S69F	10-35
CXD1361M	10-17	NJM062M	10-32	TC4S71F	10-35
CXD8002	10-23	NJM064M	10-32	TC4S81F	10-35
CXD8042Q	10-26	NJM386M	10-32	TC4SU69F	10-35
CXD8154M	10-26	NJM4559M	10-32	TC504013BF	10-35
CXK1011P	10-27			TC50H001F	10-35
CXP80116	10-27	RC1496M	10-33	TC74HC14F	10-33
		RC2041MD	10-33	TC74HC4049F	10-35
HA11423MP	10-28	RC2043MD	10-33	TC74HC4053AF ...	10-32
HD6305YOP	10-29	RC4556MA	10-33	TC74HC4538F	10-32
HD74AC04P-R	10-28	RC4558M	10-33	TC7S04F	10-35
				TC7S08F	10-35
				TL062CPS	10-32
				TL064CNS	10-32
				TL072CPS	10-35
				TL7700CPS	10-35
				TLC27L2CPS	10-36
				TLC27L4CNS	10-36

等価回路はICメーカーのData Bookに従いました。

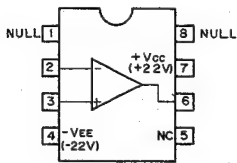
The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

IC	PAGE
UPC1663G	10-36
UPC311G2	10-36
UPC358G2	10-36
UPC4558G2	10-33
UPC4572G2	10-36
UPC78N77H	10-36
UPC812G2	10-36

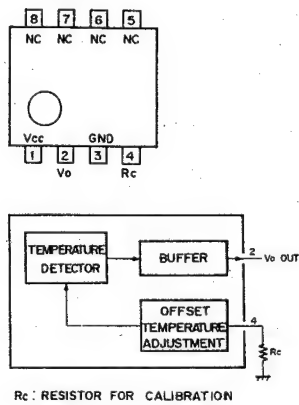
Transistor	PAGE
2SA1162	10-37
2SA1213	10-37
2SA1226	10-37
2SA1611	10-37
2SA1462	10-37
2SA1463	10-37
2SA812	10-37
2SB624	10-37
2SB798	10-37
2SB907	10-37
2SC1009A	10-37
2SC1623	10-37
2SC2713	10-37
2SC2757	10-37
2SC2873	10-37
2SC3360	10-37
2SC3661	10-37
2SC4177	10-37
2SC4178	10-37
2SC4213	10-37
2SD596	10-37
2SD1221	10-37
2SD1615A	10-37
2SK94	10-37
2SK209	10-37
2SK508	10-37
2SK612	10-37
2SK620	10-37
3SK163	10-37
DTA114YK	10-37
DTC114YU	10-37
DTC114EU	10-37
DTA144EU	10-37
DTC144EU	10-37
NTM2369	10-37
XN6435	10-38
XN6534	10-38

Diode	PAGE
1S1555	10-38
1S2835	10-38
1S2836	10-38
1S2837	10-38
1SS119	10-38
1SS123	10-38
1SS226	10-38
1SS304	10-38
BR0035	10-38
DA204U	10-38
DAN202U	10-38
E10QS04	10-38
EBR3402S	10-38
ERA81-004	10-38
GL-1HD1	10-38
GL-5LR40	10-38
GP-1S54	10-38
GP-2S09	10-38
HSM88AS	10-38
HSM88WK	10-38
HZ7ALL	10-38
HZ7A7L	10-38
HZ7BLL	10-38
HZ7B7L	10-38
MA152WK	10-38
RD77ESB?	10-38
RD77FB?	10-38
RD77M	10-38
SB01-05CP	10-38
U05E	10-38
V09C	10-38
V117	10-38

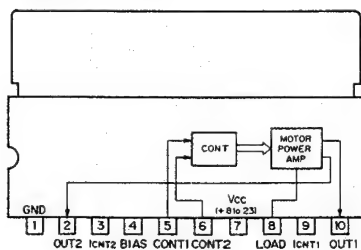
AD707JN (ANALOG DEVICES)
AD707JR (ANALOG DEVICES) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



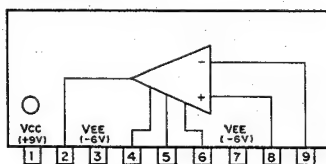
AN6701S (MATSUSHITA) FLAT PACKAGE
TEMPERATURE SENSING
— TOP VIEW —



BA6229 (ROHM)
BI-DIRECTIONAL MOTOR DRIVER
— SIDE VIEW —

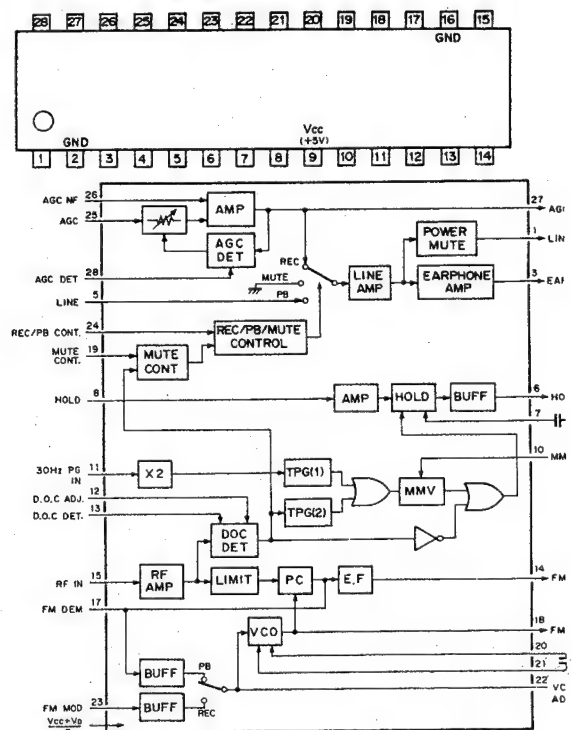


BX1356 (SONY)
VIDEO OUTPUT AMPLIFIER
— PRINTED SIDE —

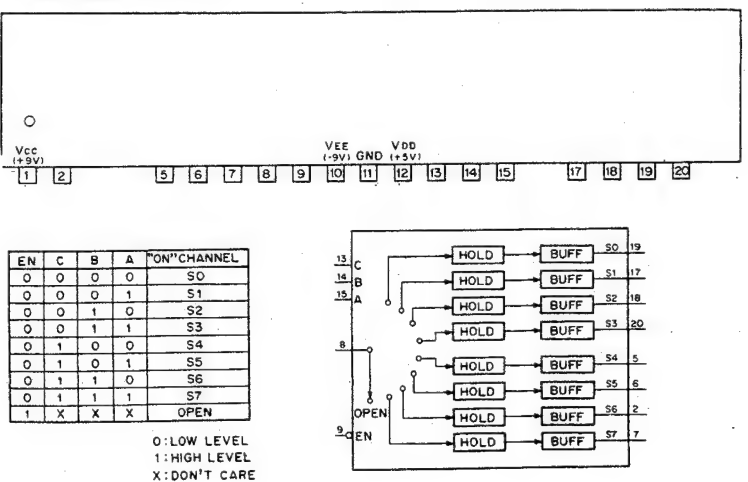


BVW-300A (J, UC)
BVW-300AP (EK)

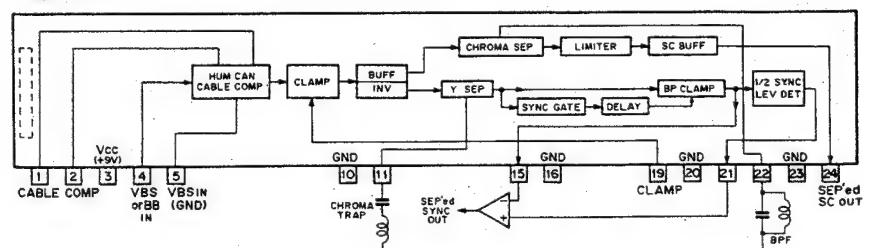
AN6391NS (MATSUSHITA) FLAT PACKAGE
AUDIO FM REC/PB AMP
— TOP VIEW —



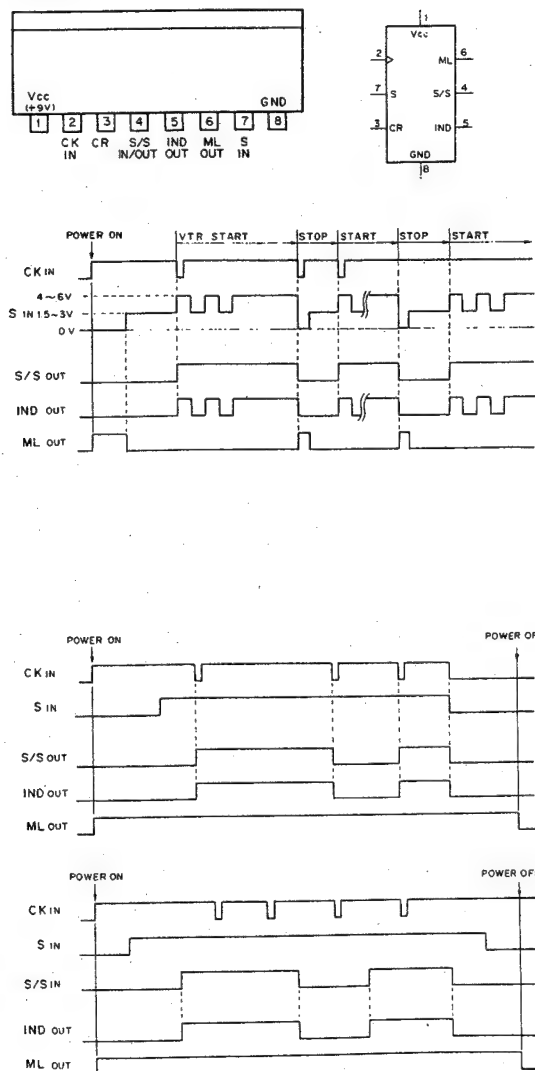
BX1179 (SONY)
8-CHANNEL SELECTABLE SAMPLING HOLDER
— PRINTED SIDE —



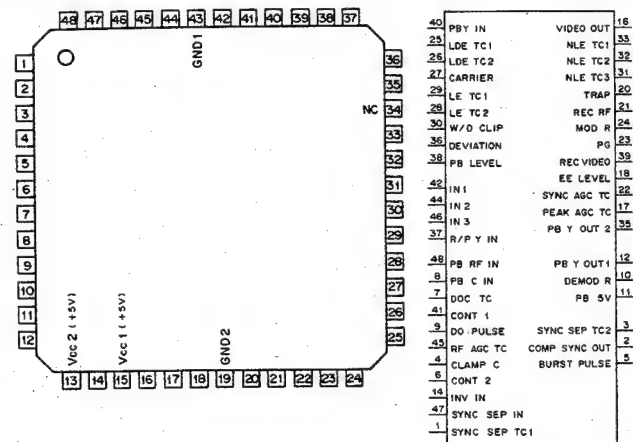
BX1040 (SONY)
SYNC SEPARATOR
— REAR VIEW —



CX518 (SONY)
INTERFACE CIRCUIT BETWEEN VTR AND CAMERA
— SIDE VIEW —

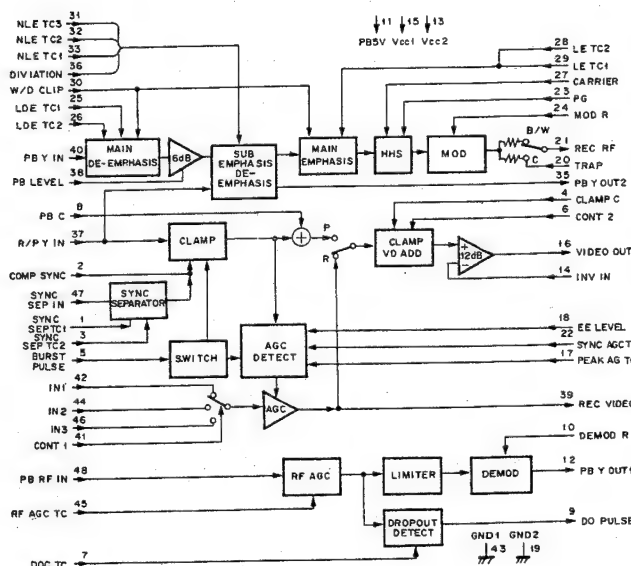


CX20030 (SONY) FLAT PACKAGE
CX1230AR (SONY) FLAT PACKAGE
VIDEO Y SIGNAL PROCESSOR
— TOP VIEW —



(V_{DD} = +5V)

PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	SYNC SEP TC1	17	I	PEAK AGC TC	33	I	NLE TC1
2	O	COMP SYNC	18	I	EE LEVEL	34	—	NC
3	I	SYNC SEP TC2	19	—	GND2	35	O	PB Y OUT2
4	I	CLAMP C	20	I	TRAP	36	I	DEVIATION
5	I	BURST PULSE	21	O	REC RF	37	I	R/P Y IN
6	I	CONT2	22	I	SYNC AGC TC	38	I	PB LEVEL
7	I	DOC TC	23	I	PG	39	O	REC VIDEO
8	I	PB C	24	I	MOD R	40	I	PB Y IN
9	O	DO PULSE	25	I	LDE TC1	41	I	CONT1
10	I	DEMOD R	26	I	LDE TC2	42	I	IN1
11	I	PB 5V	27	I	CARRIER	43	—	GND1
12	O	PB Y OUT1	28	I	LE TC2	44	I	IN2
13	—	Vcc2	29	I	LE TC1	45	I	RF AGC TC
14	I	INV IN	30	I	W/D CLIP	46	I	IN3
15	—	Vcc1	31	I	NLE TC3	47	I	SYNC SEP IN
16	O	VIDEO OUT	32	I	NLE TC2	48	I	PB RF IN

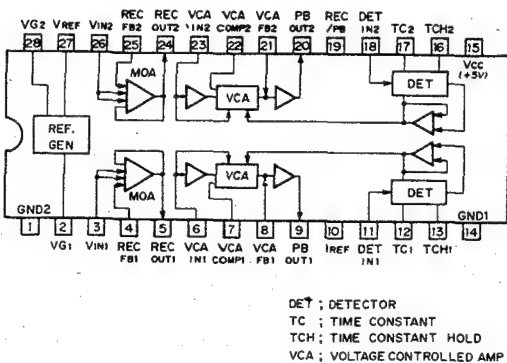


INPUT
BURST PULSE : BURST PULSE INPUT
CARRIER : FM MODULATOR CARRIER CONTROL INPUT
CLAMP C : EXTERNAL CAPACITOR FOR CLAMPING INPUT
CONT 1 : INTERNAL SWITCH CONTROL INPUT
CONT 2 : MUTE AND VO-ADD CONTROL INPUT
DEMOM R : EXTERNAL RESISTOR FOR FM DEMODULATOR INPUT
DEVIATION : DEVIATION CONTROL INPUT
DOC TC : EXTERNAL CAPACITOR FOR DROPOUT DETECTION INPUT
EE LEVEL : SYNC AGC CONTROL INPUT
IN 1 - IN 3 : RECORDING VIDEO SIGNAL INPUTS
INV IN : INVERTING INPUT FOR VIDEO CIRCUIT
LDE TC1,TC2 : EXTERNAL RESISTOR FOR LINEAR DE-EMPHASIS INPUTS
LE TC1,TC2 : EXTERNAL CR FOR LINEAR EMPHASIS INPUTS
MOD R : EXTERNAL RESISTOR FOR FM MODULATOR INPUT
NLE TC1 - NLE TC3 : EXTERNAL CAPACITOR FOR NON-LINEAR EMPHASIS INPUTS
PB 5V : POWER FOR PLAYBACK SYSTEM INPUT
PB C : PB CHROMA INPUT AND M/C CONTROL INPUT
PB LEVEL : PB Y OUT2 SIGNAL CONTROL INPUT
PB RF IN : PB RF (FM) INPUT
PB Y IN : PB Y SIGNAL FOR DE-EMPHASIS INPUT
PEAK AGC TC : EXTERNAL CR INPUT FOR PEAK AGC
PG : PG (30Hz) SIGNAL INPUT
RF AGC TC : EXTERNAL CR FOR RF AGC INPUT
R/P Y IN : Y SIGNAL FOR CLAMPING INPUT
SYNC AGC TC : EXTERNAL CR INPUT FOR SYNC AGC
SYNC SEP IN : SYNC SEPARATION SIGNAL INPUT
SYNC SEP TC1,TC2 : EXTERNAL CR INPUT FOR SYNC SEPARATION
TRAP : TRAP INPUT
W/D CLIP : LINEAR EMPHASIS AND W/D CLIP CONTROL INPUT

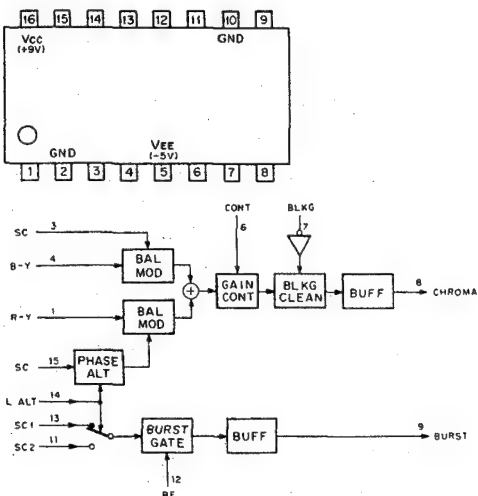
OUTPUT
COMP SYNC : COMPOSITE SYNC OUTPUT
DO PULSE : DROPOUT PULSE OUTPUT
PB Y OUT1 : FREQUENCY DEMODULATOR OUTPUT
PB Y OUT2 : PB Y OUTPUT
REC RF : Y-FM SIGNAL OUTPUT
REC VIDEO : AMPLIFIED Y SIGNAL OUTPUT
VIDEO OUT : VIDEO OUTPUT

BVW-300A (J, UC)
BVW-300AP (EK)

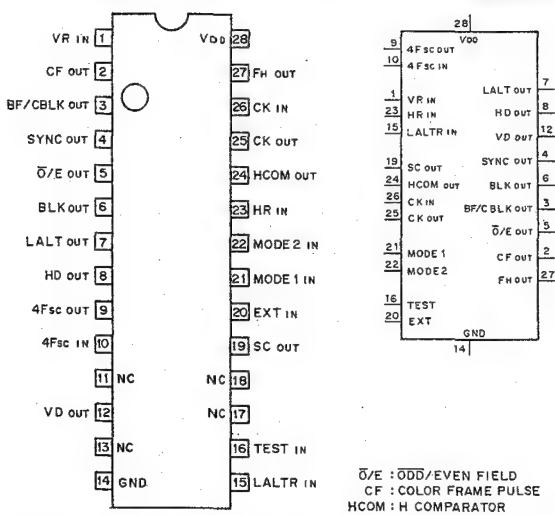
CX20099 (SONY) FLAT PACKAGE
VOLTAGE CONTROLLED AMP/DETECTOR/MAIN OPERATIONAL AMP
— TOP VIEW —



CX22017 (SONY)
VIDEO SIGNAL PROCESSOR
— TOP VIEW —



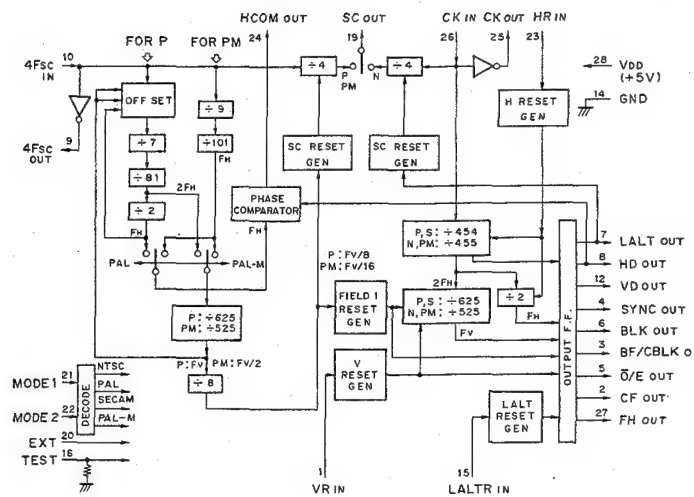
CX7930A (SONY) ($V_{DD} = +5V$) FLAT PACKAGE
CMOS SYNC GENERATOR (NTSC, PAL-M, PAL, SECAM)
— TOP VIEW —



SYSTEM	4Fsc	CLOCK	MODE1	MODE2	SYSTEM	EXT TEST	FUNCTION
NTSC	910 Fh	910 Fh	0	0	NTSC	0	INTERNAL
PAL	1135 Fh + 2Fv	908 Fh	0	1	SECAM	0	INVALID
PALM	909 Fh	910 Fh	1	0	PALM	1	EXT
SECAM		908 Fh	1	1	PAL	1	TEST

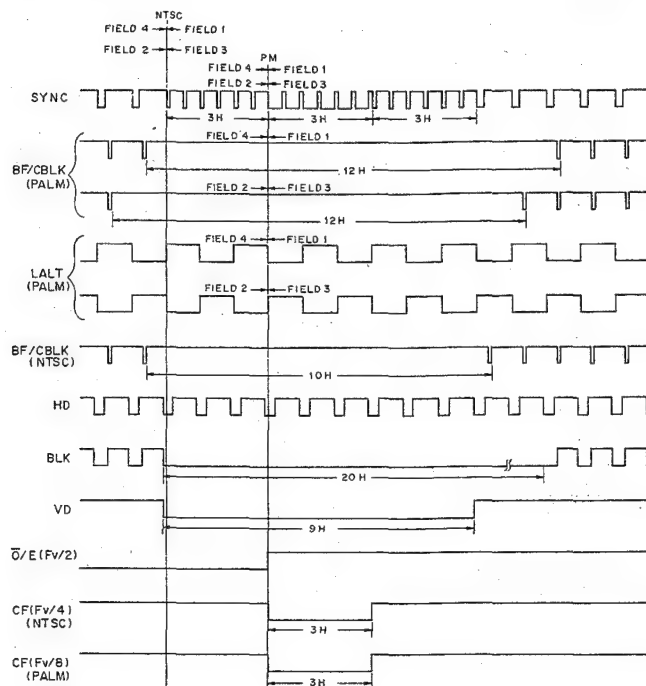
TEST '0': OPEN (INTERNALLY PULLED DOWN)

CX7930 (2/7)



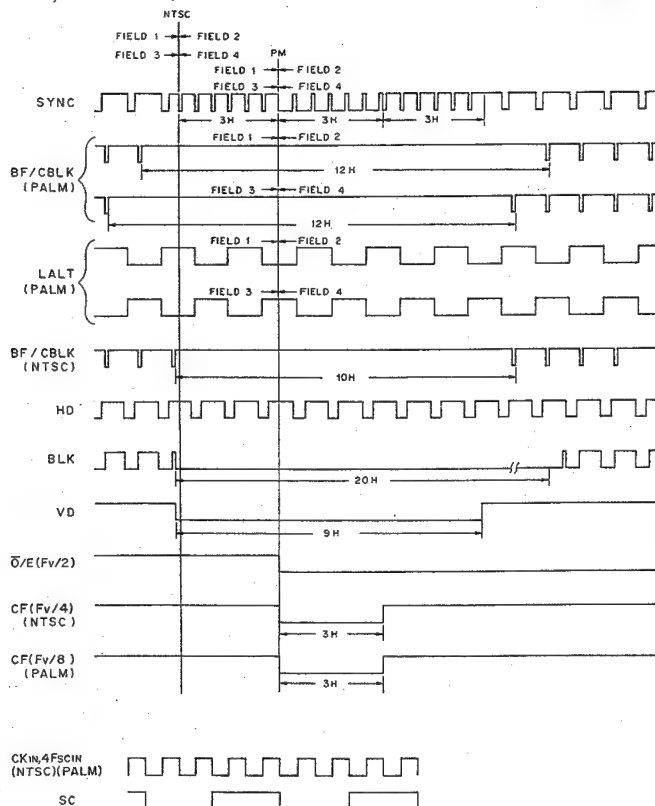
NTSC, PAL-M (FIELD 1,3)

CX7930 (3/7)



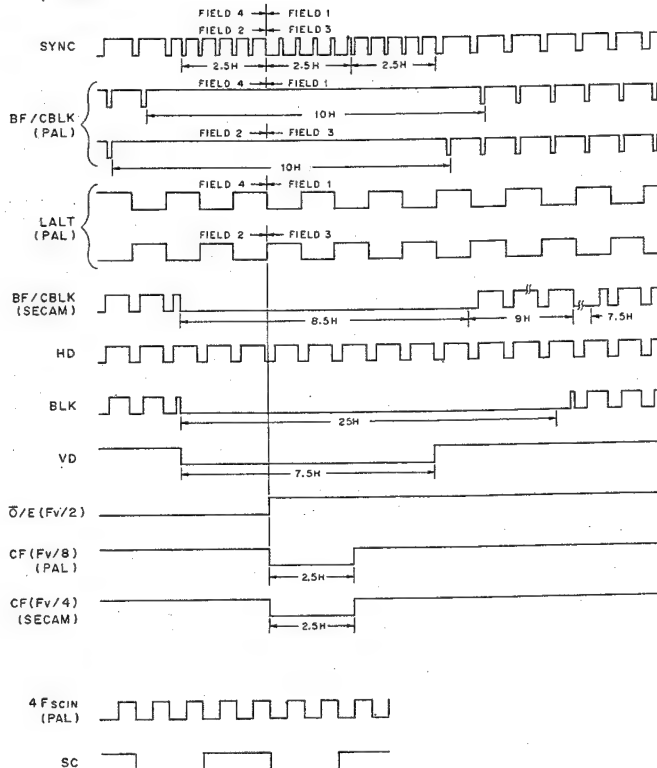
NTSC, PAL-M (FIELD 2, 4)

CX7930(4/7)



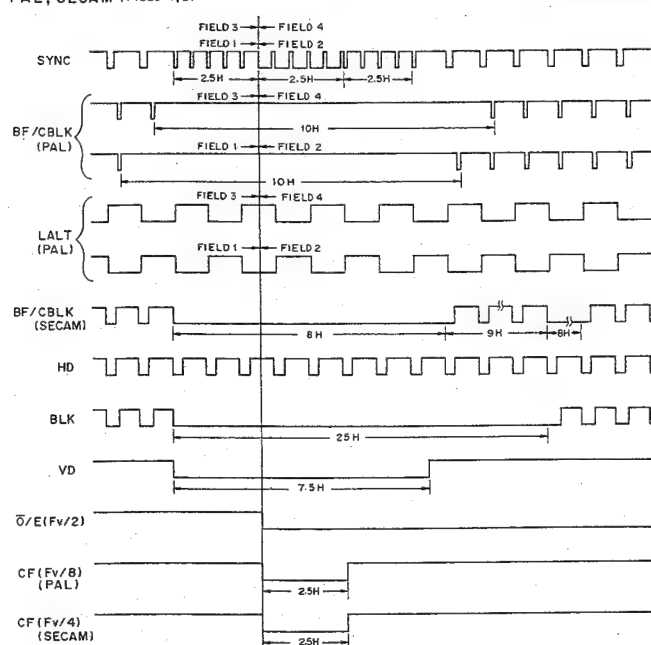
PAL, SECAM (FIELD 1, 3)

CX7930(6/7)



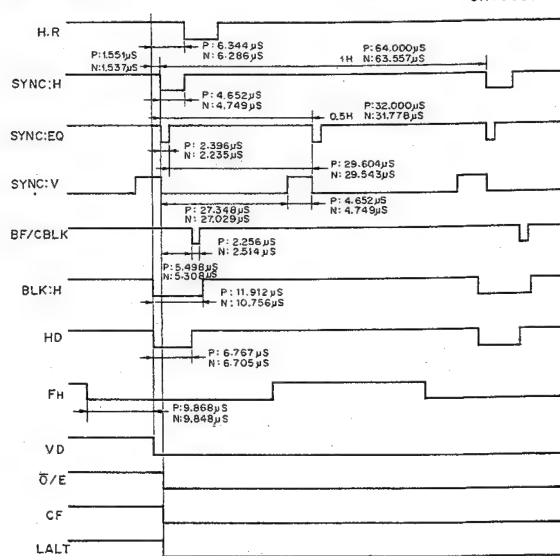
PAL, SECAM (FIELD 4, 2)

CX7930(5/7)

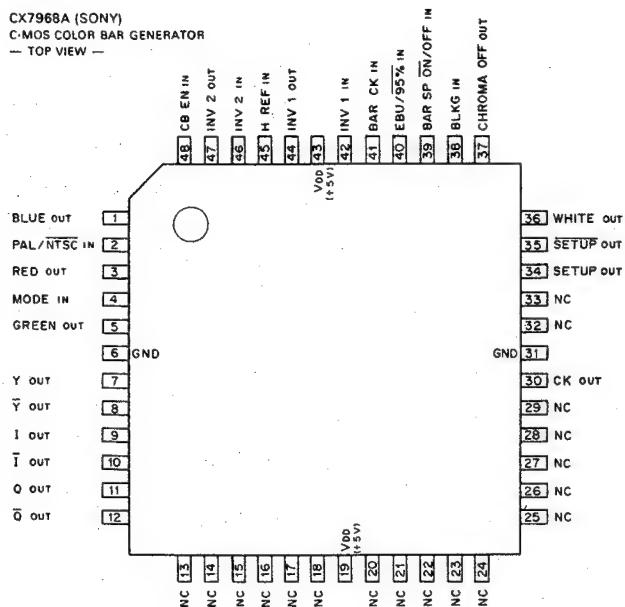


P: PAL, SECAM
N: NTSC, PALM

CX7930(7/7)



CK7968A (SONY)
CMOS COLOR BAR GENERATOR
— TOP VIEW —



INPUT				FUNCTION
PAL/NTSC	MODE	EBU/95%	BAR SP	
0	0	0	0	EIAJ COLOR BAR
0	0	0	1	FULL FIELD COLOR BAR
0	0	1	0	INHIBIT
0	0	1	1	INHIBIT
0	1	0	0	EIAJ COLOR BAR
0	1	0	1	FULL FIELD COLOR BAR
0	1	1	0	SMPTE COLOR BAR
0	1	1	1	COLOR BAR + Y BAR
1	0	0	0	95% COLOR BAR
1	0	0	1	INHIBIT
1	0	1	0	EBU COLOR BAR
1	0	1	1	INHIBIT
1	1	0	0	95% COLOR BAR
1	1	0	1	COLOR BAR + Y BAR
1	1	1	0	EBU COLOR BAR
1	1	1	1	INHIBIT

0: LOW LEVEL
1: HIGH LEVEL

COLOR BAR PATTERN

EIAJ COLOR BAR (INTSC)					
GRAY	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE					
- I	WHITE	+ Q	BLACK		

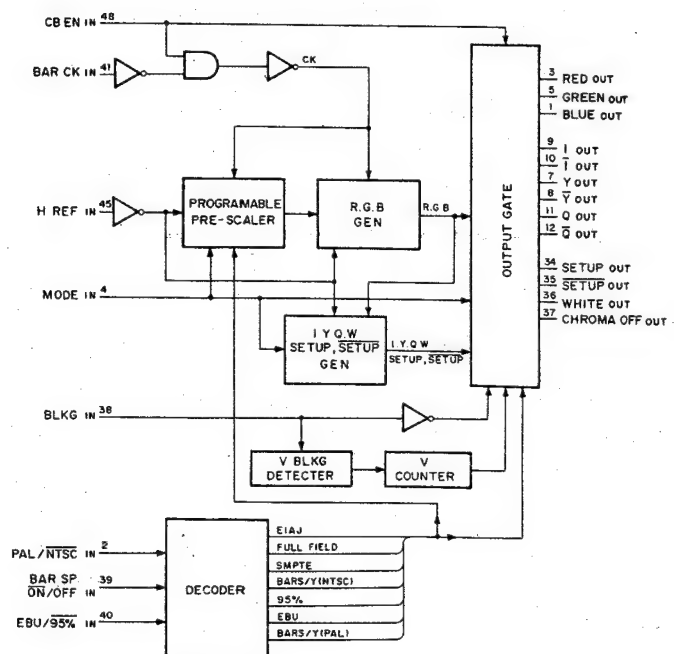
COLOR BAR + Y BAR (PAL or INTSC)					
WHITE	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE					
WHITE	GRAY	GRAY	GRAY	GRAY	GRAY
BLACK					

FULL FIELD COLOR BAR (INTSC)					
GRAY	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE					

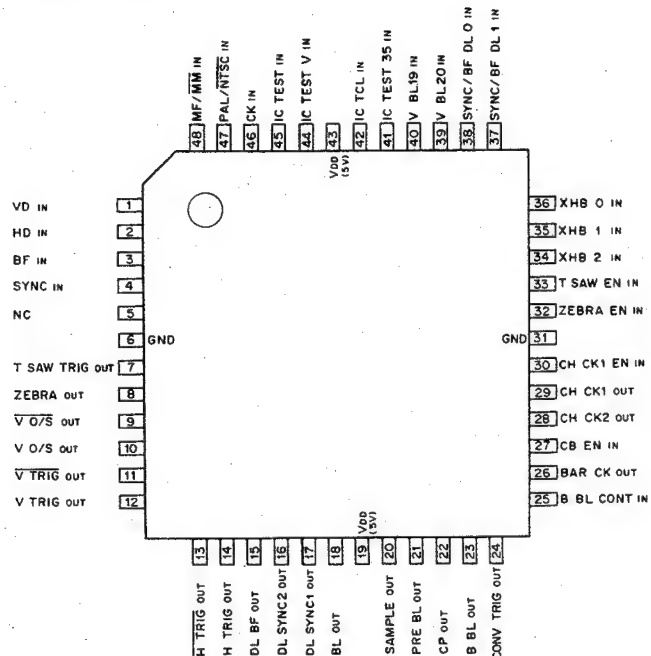
95% COLOR BAR (PAL)					
WHITE	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE					
BLACK					

SMPTE COLOR BAR (INTSC)					
GRAY	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE	BLACK	MAGENTA	BLACK	CYAN	BLACK
GRAY					
- I	WHITE	+ Q	BLACK	BLACK	BLACK

EBU COLOR BAR (PAL)					
WHITE	YELLOW	CYAN	GREEN	MAGENTA	RED
BLUE					
BLACK					



CX7969 (SONY)
C-MOS PULSE GENERATOR
— TOP VIEW —



1. SYSTEM DESIGNATION

INPUT	SYSTEM
PAL/NTSC IN	
1	PAL, SECAM
0	NTSC, PALM

2. TYPE OF TUBE

INPUT	FUNCTION
MF/MM IN	
1	MAG-STA TUBE
0	MAG-MAG TUBE

3. V BLKG WIDTH (NTSC ONLY)

INPUT	V BL 19	V BL 20	V BLKG WIDTH
1	X		19H
0	1		20H
0	0		21H

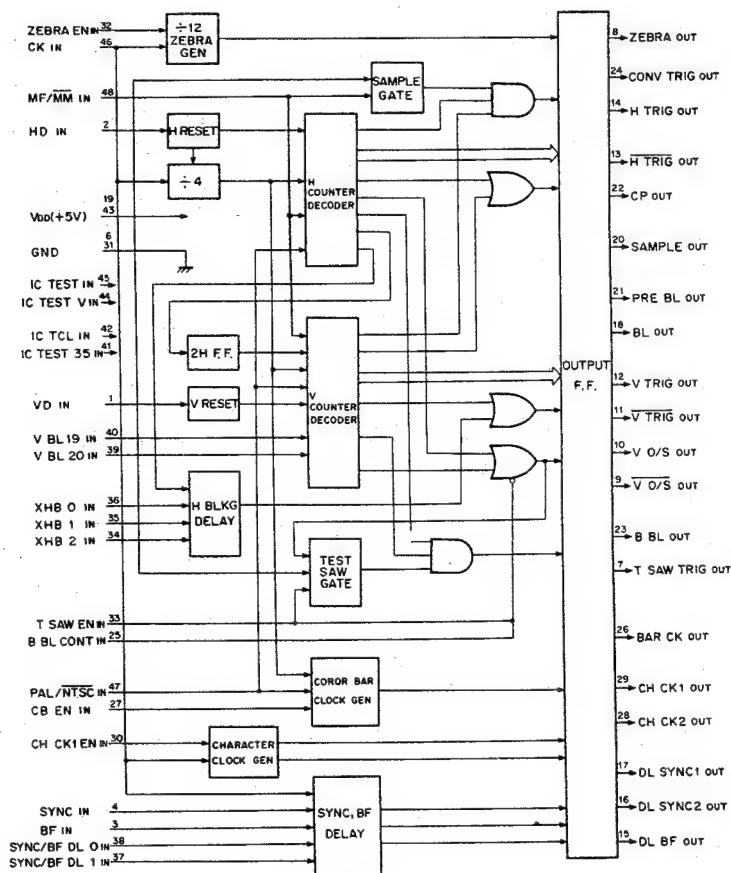
4. H BLKG WIDTH

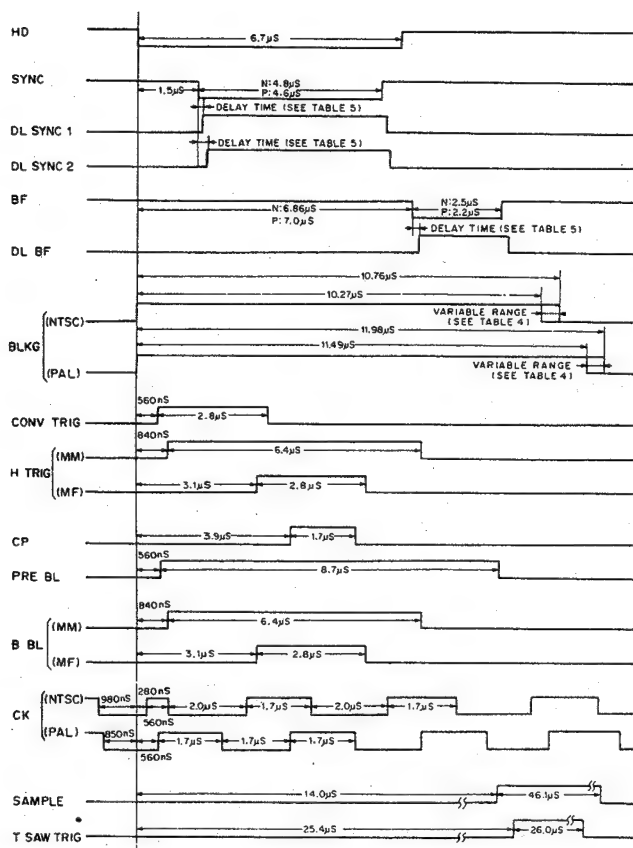
INPUT	XHB2	XHB1	XHB0	NTSC	PAL
1	1	1	1	10.27	11.49
1	1	1	0	10.34	11.56
1	0	1		10.41	11.63
1	0	0		10.48	11.70
0	1	1		10.55	11.77
0	1	0		10.62	11.84
0	0	1		10.69	11.91
0	0	0		10.76	11.98

5. DELAY TIME

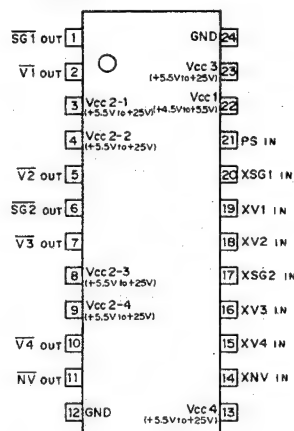
INPUT	SYNC/BF DL1	SYNC/BF DL2	DL SYNC 1	DL SYNC 2	DL BF
1	1		140	210	140
1	0		210	280	210
0	1		630	700	630
0	0		700	770	700

1; HIGH LEVEL
0; LOW LEVEL
X; DON'T CARE

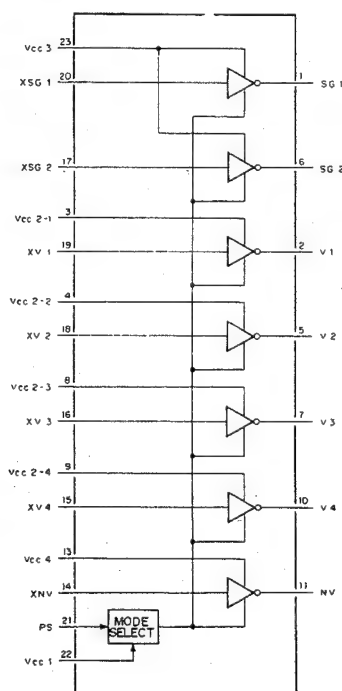
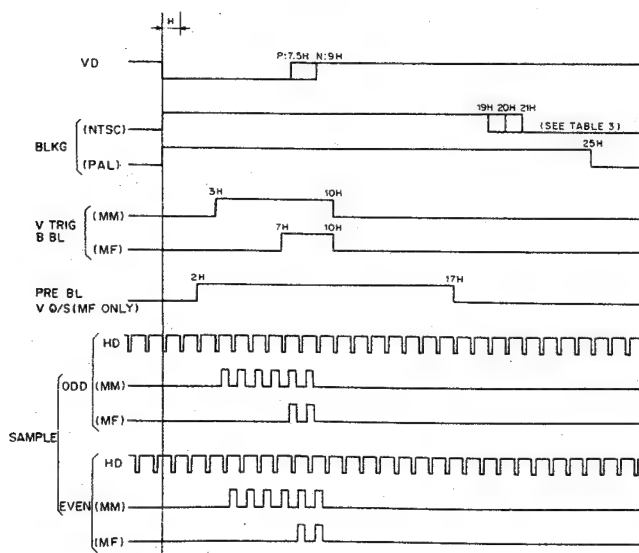




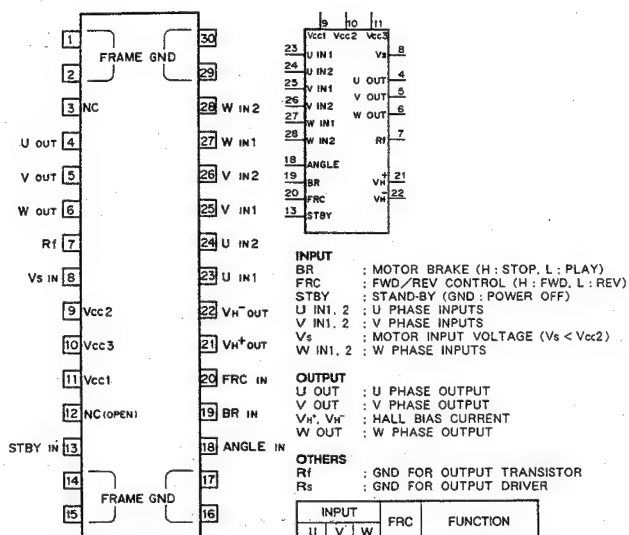
CXA1065M (SONY) FLAT PACKAGE
INVERTING DRIVER FOR CCD CLOCK WITH POWER SAVE
— TOP VIEW —



XV1-XV4; VERTICAL REGISTER TRANSMISSION CLOCK INPUT
V1-V4; VERTICAL REGISTER TRANSMISSION CLOCK OUTPUT
XSG1, XSG2; SENSER GATE PULSE INPUT
SG1, SG2; SENSER GATE PULSE OUTPUT
XNV; DRIVER INPUT
NV; DRIVER OUTPUT
PS; POWER SAVE INPUT
Vcc 1; BIAS VOLTAGE
Vcc 2-1; V1 OUTPUT PULSE VOLTAGE
Vcc 2-2; V2 OUTPUT PULSE VOLTAGE
Vcc 2-3; V3 OUTPUT PULSE VOLTAGE
Vcc 2-4; V4 OUTPUT PULSE VOLTAGE
Vcc 3; SG1, SG2 OUTPUT PULSE VOLTAGE
Vcc 4; NV OUTPUT PULSE VOLTAGE



CXA1127M (SONY) FLAT PACKAGE
CAPSTAN MOTOR DRIVER
- TOP VIEW -

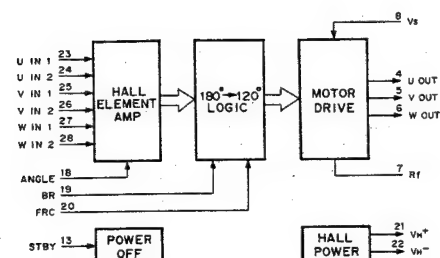


NOTE:

Vcc1	+4 to +7V	OPEN
Vcc2	+4 to +12V	+6 to +12V
Vcc3	short to Vcc1	short to Vcc2
Vs	Vs < Vcc2	Vs < Vcc2

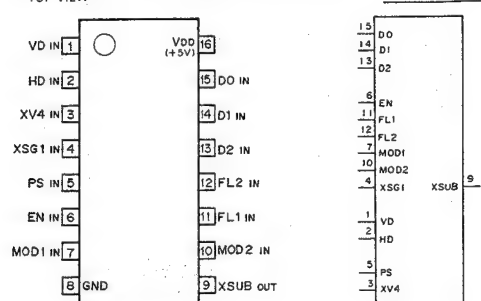
INPUT	U	V	W	FRC	FUNCTION
H	H	L	L	0	W → V PHASE
H	H	L	L	1	V → W PHASE
H	L	L	L	0	W → U PHASE
H	L	L	L	1	U → W PHASE
L	L	H	H	0	V → W PHASE
L	L	H	H	1	W → V PHASE
L	H	L	L	0	U → V PHASE
L	H	L	L	1	V → U PHASE
H	L	H	H	0	V → U PHASE
H	L	H	H	1	U → V PHASE
L	H	H	H	0	U → W PHASE
L	H	H	H	1	W → U PHASE

H: HIGH LEVEL
L: LOW LEVEL
1: 2.0 to Vcc2
0: 0 to 0.3V



CXD1141M

CXD1141M (SONY)
C-MOS ELECTRIC SHUTTER TIMING PULSE GENERATOR
- TOP VIEW -



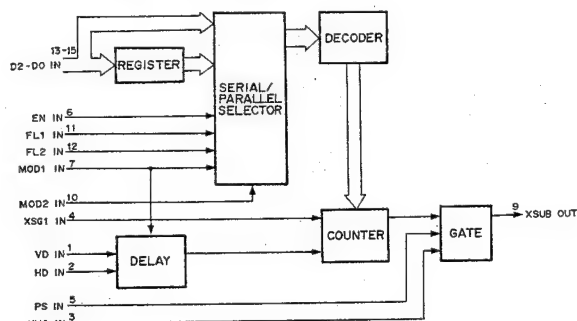
MODE SELECTION

EN	MOD1	MOD2	FL1	FL2	D2	D1	DO	SHUTTER SPEED
1	1	1	1	1	0	0	0	1/60
1	1	1	1	1	0	0	1	1/125
1	1	1	1	1	0	1	0	1/250
1	1	1	1	1	0	1	1	1/500
1	1	1	1	1	1	0	0	1/1000
1	1	1	1	1	1	0	1	1/2000
1	1	1	1	1	1	1	0	1/4000
1	1	1	1	1	1	1	1	1/10000
1	0	1	1	1	0	0	0	1/60
1	0	1	1	1	0	0	1	1/125
1	0	1	1	1	0	1	0	1/250
1	0	1	1	1	0	1	1	1/500
1	0	1	1	1	1	0	0	1/1000
1	0	1	1	1	1	0	1	1/2000
1	0	1	1	1	1	1	0	1/4000
1	0	1	1	1	1	1	1	1/10000
1	1	1	0	1	1	1	1	1/100
1	1	1	0	0	1	1	1	1/120
1	1	1	0	0	1	1	0	1/100
1	1	1	0	0	0	1	1	1/120
0	0	0	0	0	0	0	0	NORMAL

0: LOW LEVEL
1: HIGH LEVEL

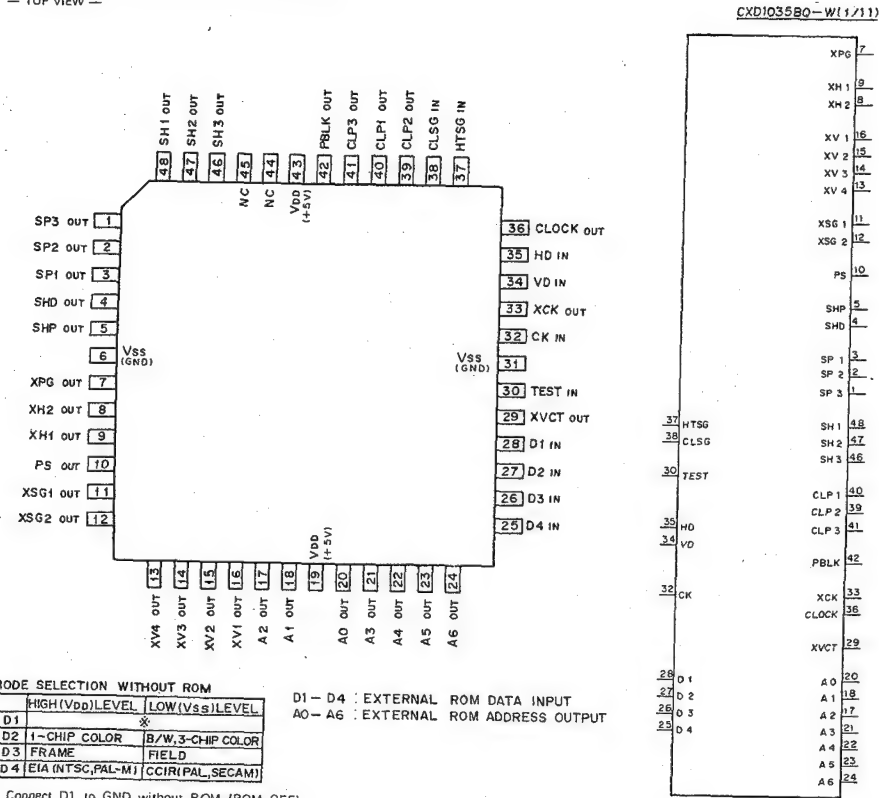
CXD1141M(2/2)

D0-D3 : ESTABLISH INPUTS OF SHUTTER SPEED
EN : ENABLE INPUT LOW: NORMAL MODE, HIGH: ELECTRONIC SHUTTER MODE
FL1 : MODE SELECT INPUT. LOW: FLICKERLESS, HIGH: NORMAL
FL2 : MODE SELECT INPUT. LOW: 60HZ, HIGH: 50HZ
HD : HORIZONTAL DRIVE PULSE INPUT
MOD1 : MODE SELECT INPUT. LOW: PAL, HIGH: NTSC
MOD2 : MODE SELECT INPUT. LOW: SERIAL INPUT, HIGH: PARALLEL INPUT
PS : POWER SAVE PULSE INPUT
VD : VERTICAL DRIVE PULSE INPUT
XSG1 : READ OUT PULSE INPUT OF SENSOR ELECTRON
XSUB : ELECTRON SWEEP OUT PULSE INPUT
XV4 : VERTICAL SCAN CLOCK INPUT



CXD1035BQ-W

CXD1035BQ-W (SONY) FLAT PACKAGE
CXD1035BQ-Z (SONY) FLAT PACKAGE
C-MOS TIMING PULSE GENERATOR FOR CCD CAMERA
— TOP VIEW —

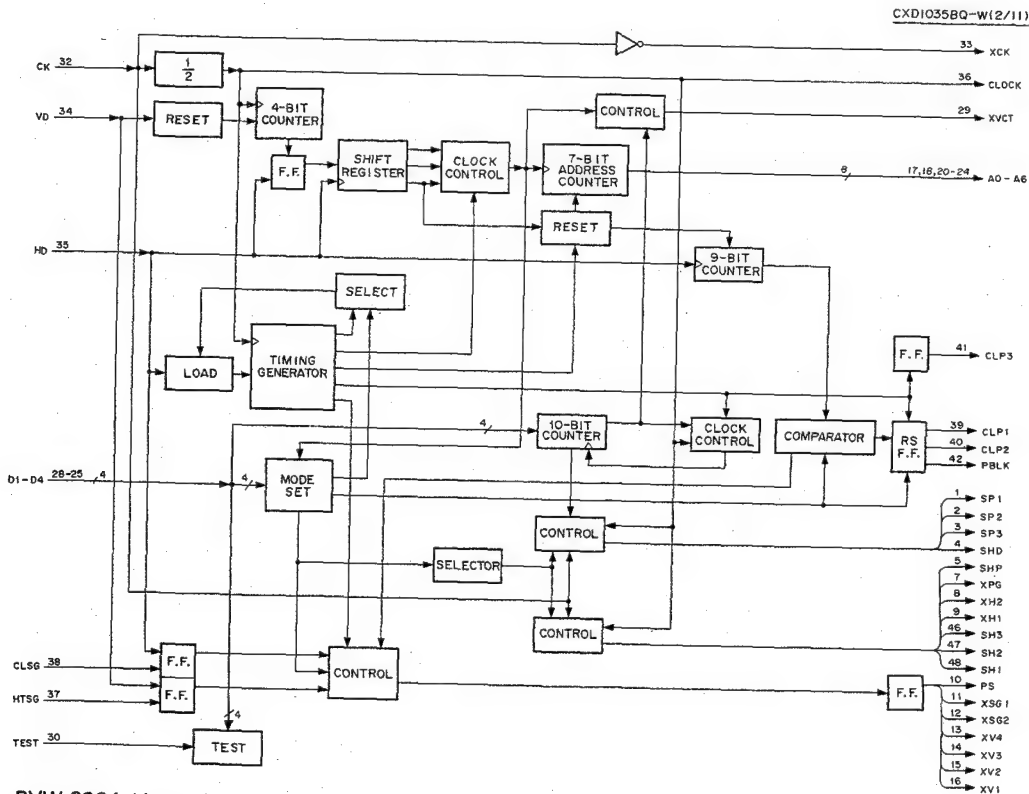


MODE SELECTION WITHOUT ROM

	HIGH (VDD) LEVEL	LOW (VSS) LEVEL
D1	*	*
D2	1-CHIP COLOR	B/W, 3-CHIP COLOR
D3	FRAME	FIELD
D4	EIA (NTSC, PAL-M)	CCIR (PAL, SECAM)

D1 - D4 : EXTERNAL ROM DATA INPUT
A0 - A6 : EXTERNAL ROM ADDRESS OUTPUT

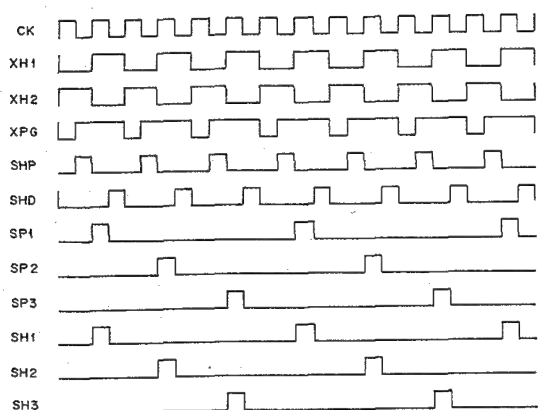
* Connect D1 to GND without ROM (ROM OFF).



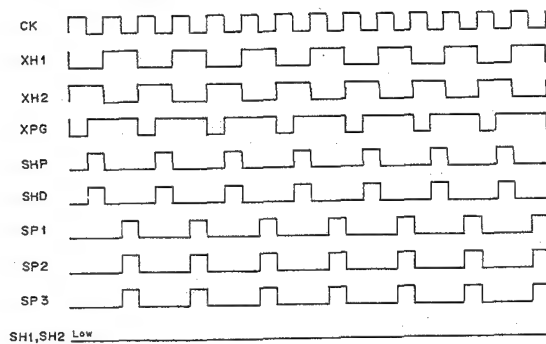
BVW-300A (J, UC)
BVW-300AP (EK)

CXD1035BQ-W(3/11)

1-CHIP COLOR

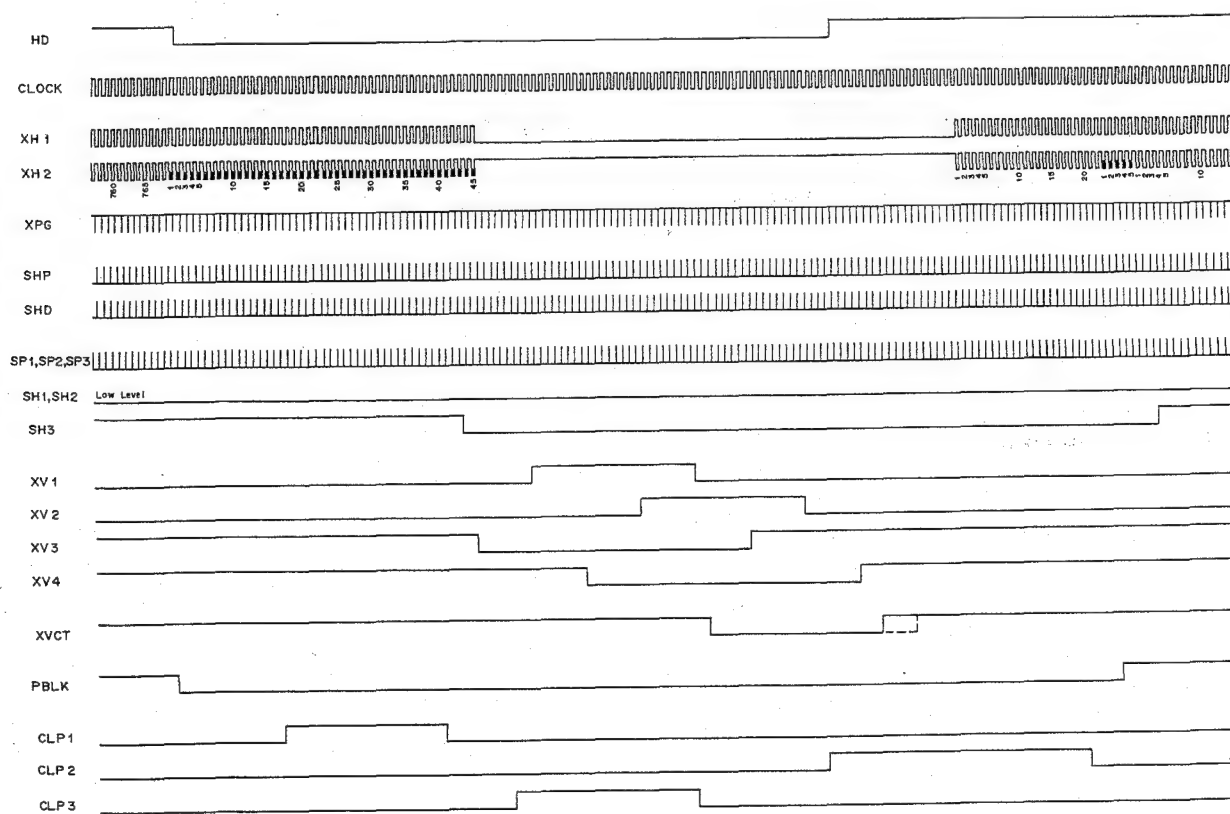


B/W, 3-CHIP COLOR



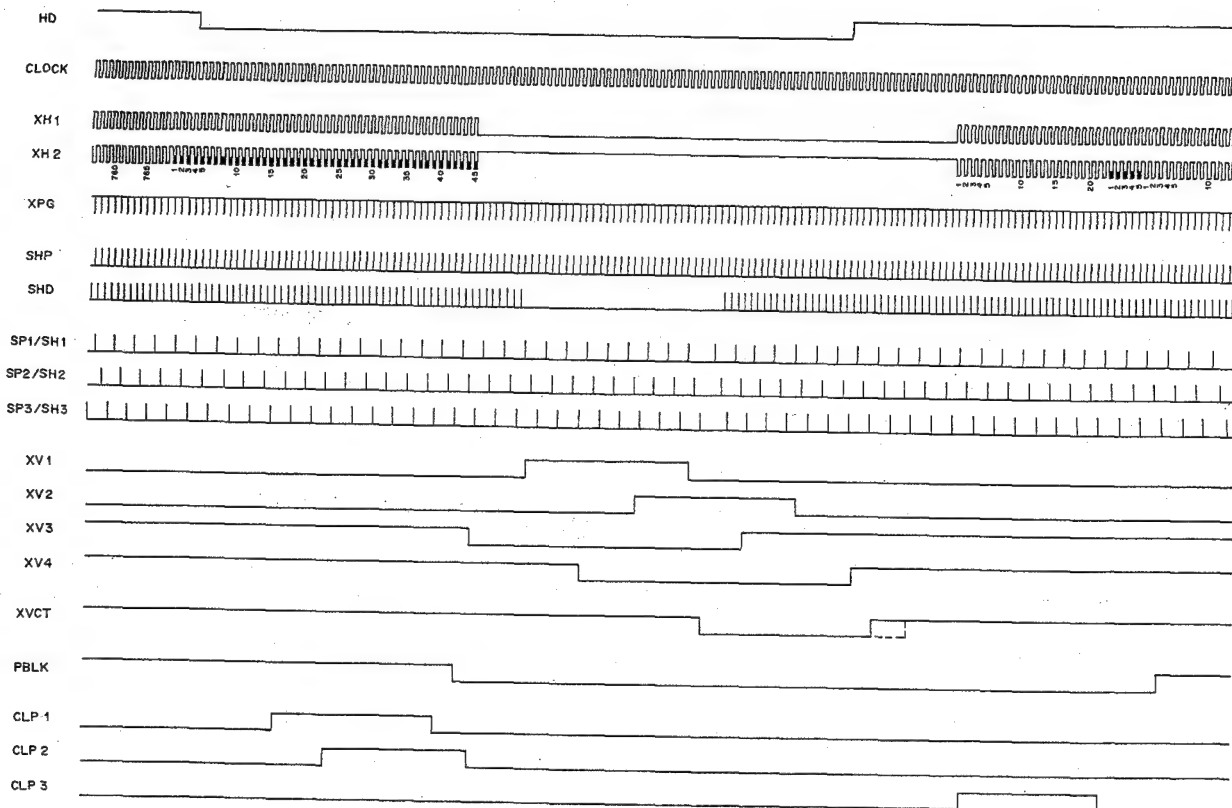
CXD1035BQ-W(4/11)

EIA (NTSC, PALM) B/W, 3-CHIP COLOR



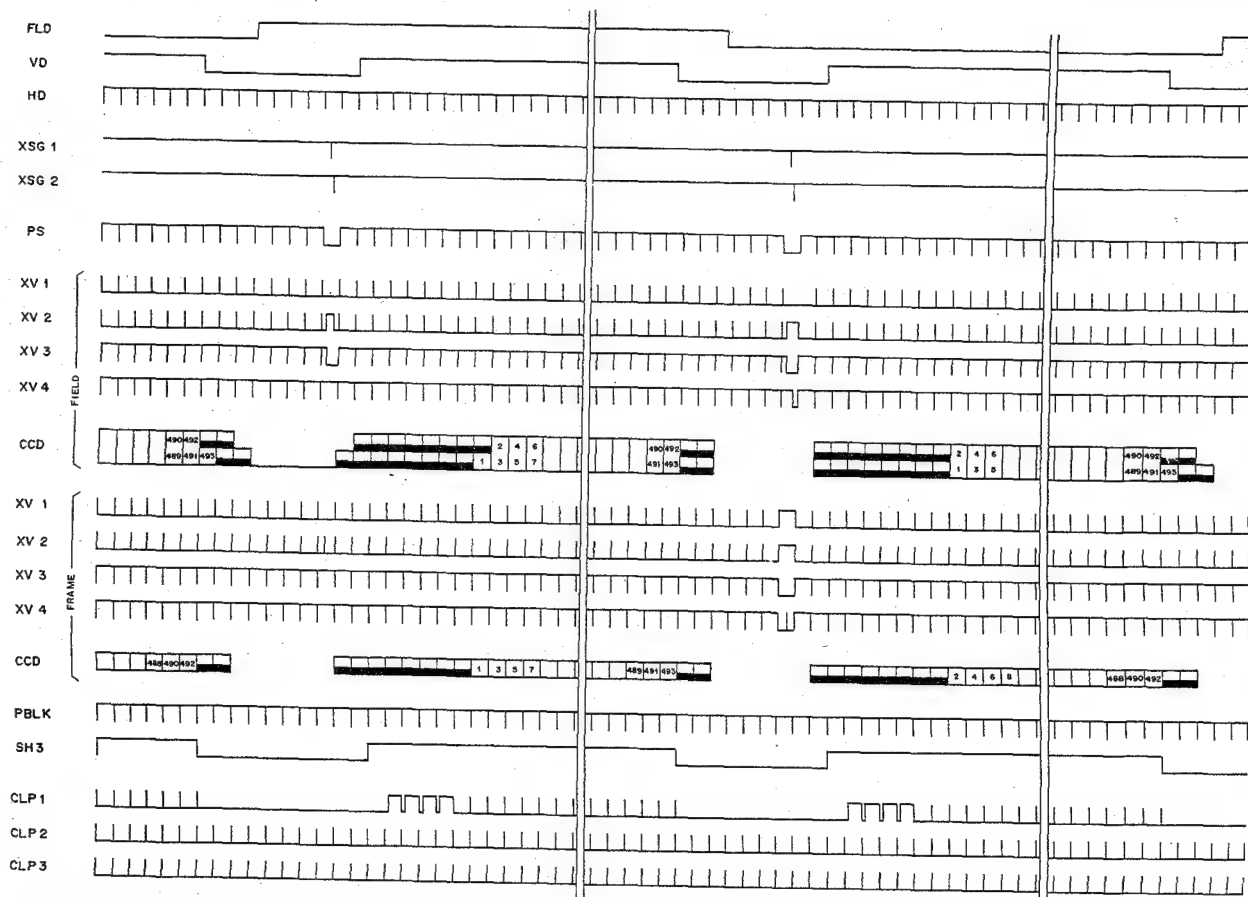
EIA(NTSC,PALM) 1-CHIP COLOR

CXD1035BQ-W(5/11)



EIA(NTSC,PALM) B/W,3-CHIP COLOR

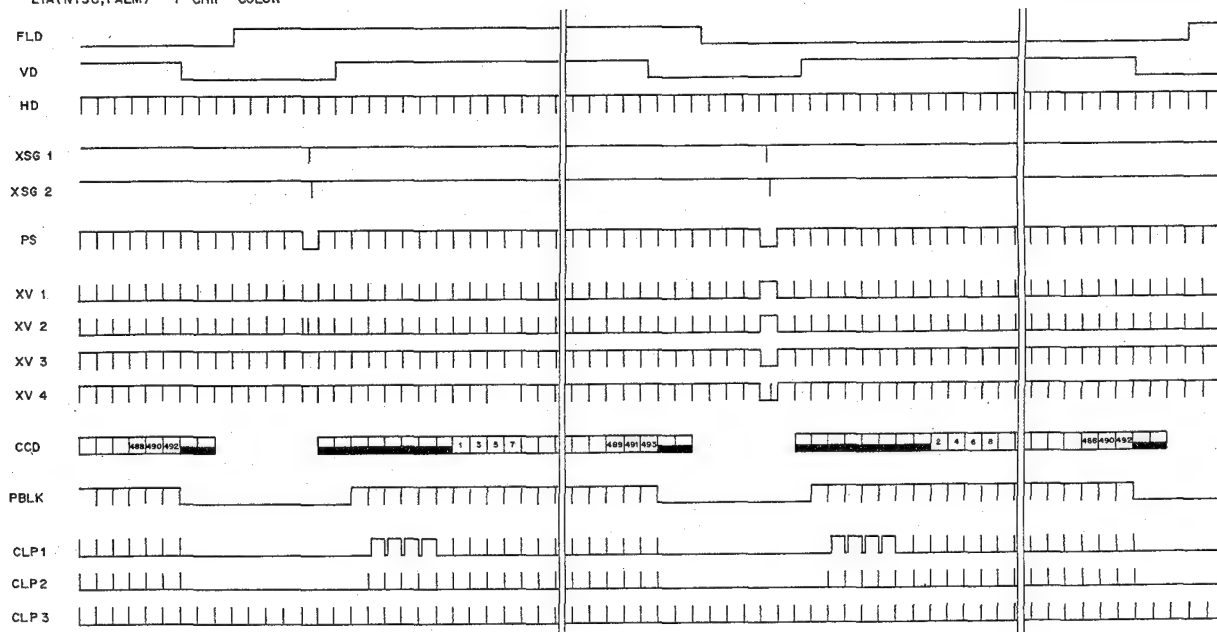
CXD1035BQ-W(6/11)



BVW-300A (J, UC)
BVW-300AP (EK)

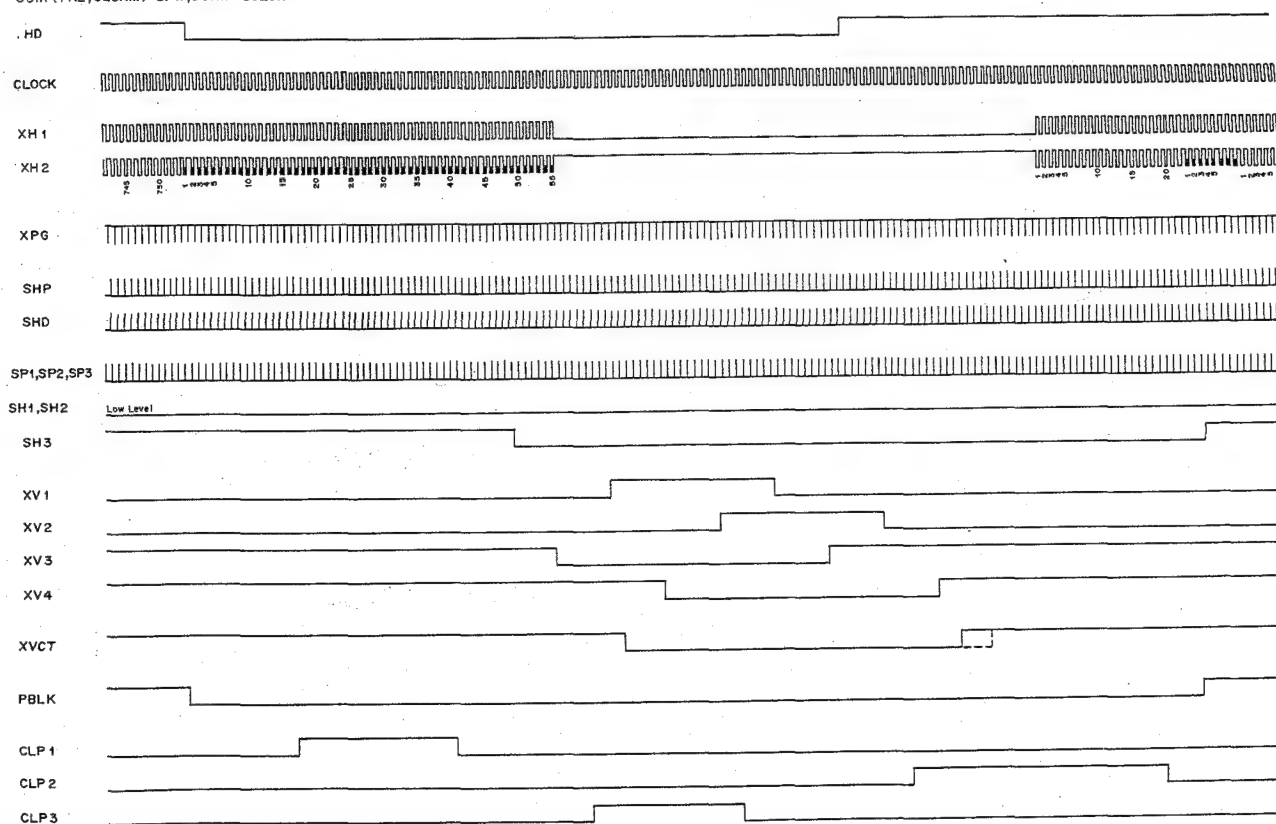
CXD1035BQ-W(7/11)

EIA(NTSC,PALM) 1-CHIP COLOR

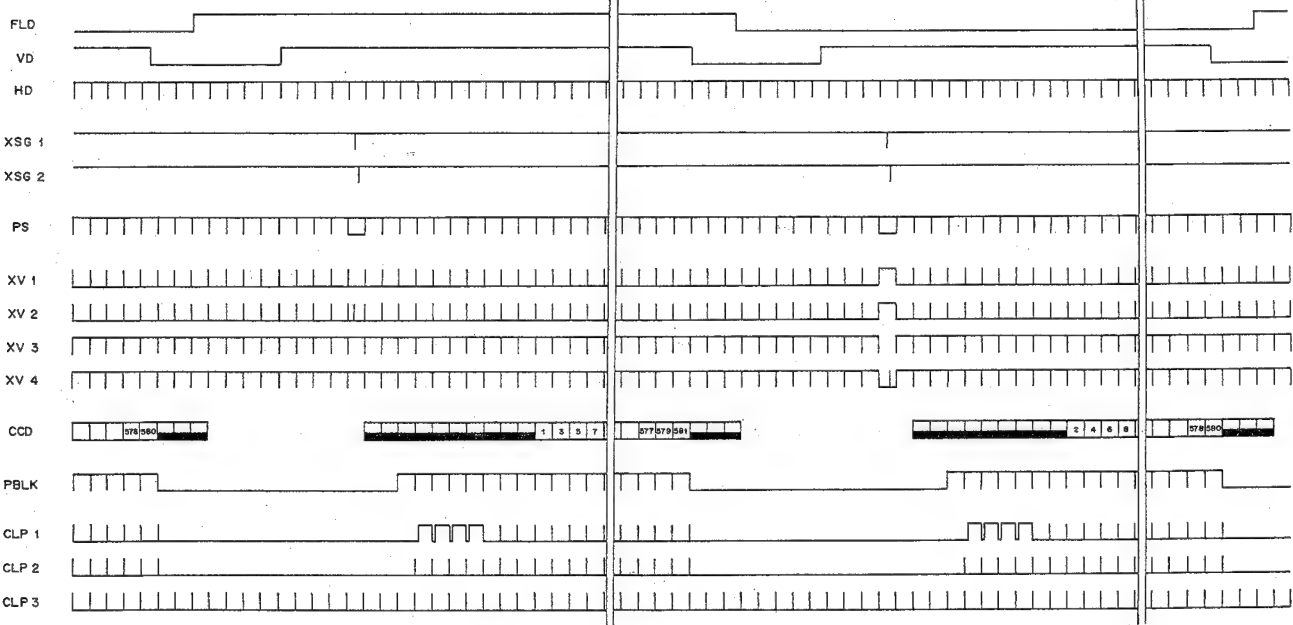


CXD1035BQ-W(8/11)

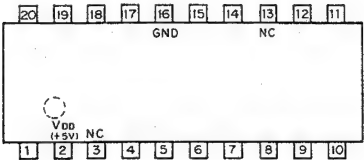
CCIR(PAL,SECAM) B/W,3CHIP COLOR



CCIR(PAL,SECAM) 1-CHIP COLOR



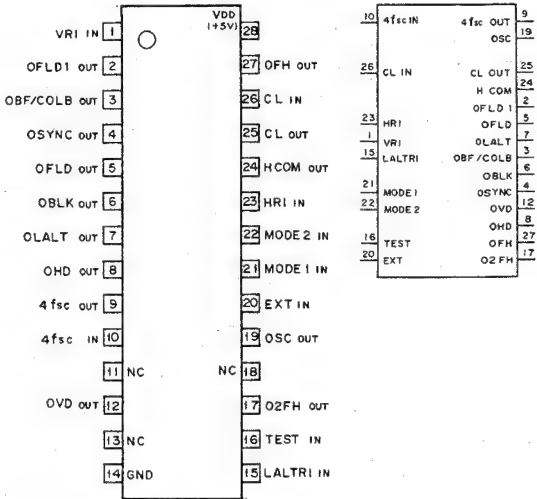
CXD1216M (SONY) FLAT PACKAGE
C-MOS GENLOCK DRIVER
- TOP VIEW -



INPUTS		EXT LOCK MODE	
MODE1	MODE2		
0	0	M1	PAL:VBS
1	0	M2	PAL-M:VBS
0	1	M3	PAL:VS/SC/LALT SECAM:VS/SC/LALT
1	1	M4	NTSC:VBS PAL-M:VS/SC/LALT

0: LOW LEVEL
1: HIGH LEVEL

CXD1217M (SONY) FLAT PACKAGE
C-MOS SYNC GENERATOR
- TOP VIEW -

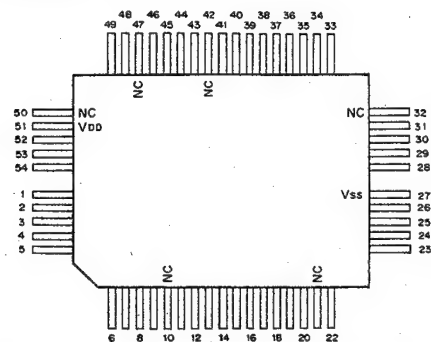


SYSTEM	4fsc	CLOCK
NTSC	910fh	910fh
PAL	1135fh+2fv	908fh
PALM	909fh	910fh
SECAM	—	908fh

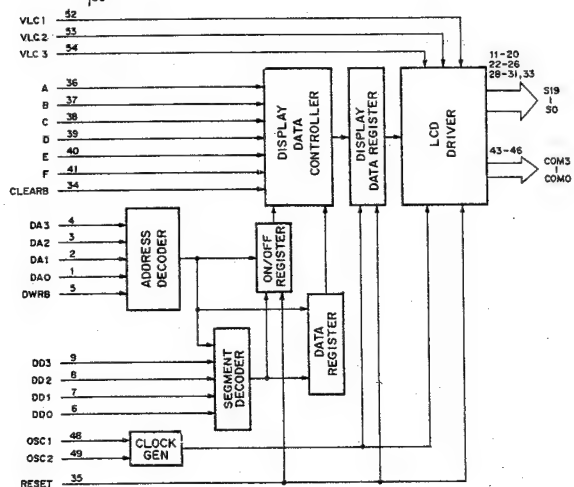
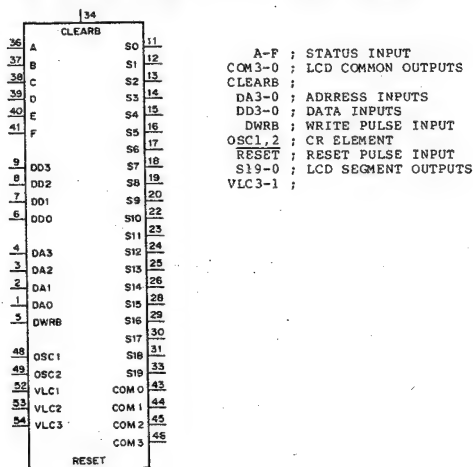
INPUT		SYSTEM
MODE1	MODE2	
0	0	NTSC
0	1	SECAM
1	0	PALM
1	1	PAL

0: LOW LEVEL
1: HIGH LEVEL

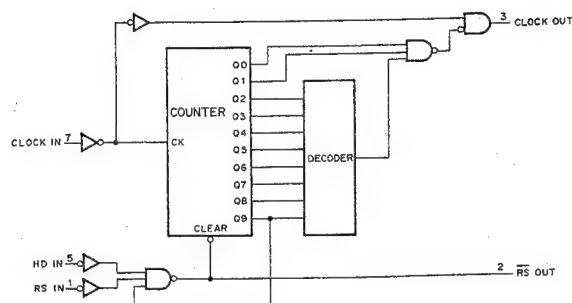
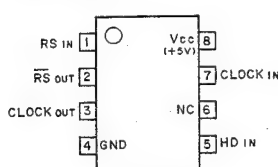
CXD1128Q (SONY) FLAT PACKAGE
C-MOS LCD CONTROLLER/DRIVER
— TOP VIEW —



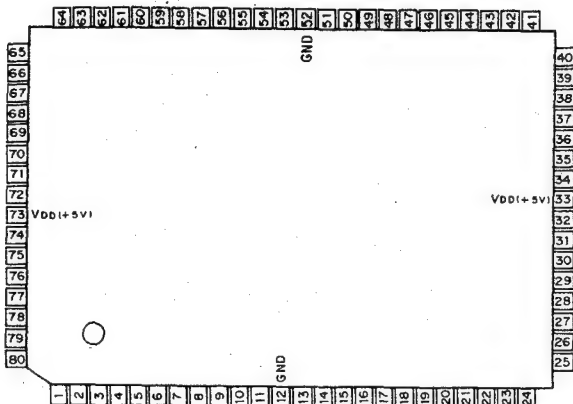
PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I	DA0	19	O	S8	37	I	B
2	I	DA1	20	O	S9	38	I	C
3	I	DA2	21	—	NC	39	I	D
4	I	DA3	22	O	S10	40	I	E
5	I	DWRB	23	O	S11	41	I	F
6	I	DD0	24	O	S12	42	—	NC
7	I	DD1	25	O	S13	43	O	COM0
8	I	DD2	26	O	S14	44	O	COM1
9	I	DD3	27	—	VSS	45	O	COM2
10	—	NC	28	O	S15	46	O	COM3
11	O	S0	29	O	S16	47	—	NC
12	O	S1	30	O	S17	48	I	OSC1
13	O	S2	31	O	S18	49	O	OSC2
14	O	S3	32	—	NC	50	—	NC
15	O	S4	33	O	S19	51	—	VDD
16	O	S5	34	I	CLEARB	52	I	VLC1
17	O	S6	35	I	RESET	53	I	VLC2
18	O	S7	36	I	A	54	I	VLC3



CXD1361M (TI) FLAT PACKAGE
CLOCK CONTROLLER
— TOP VIEW —



CXD1132Q (SONY) FLAT PACKAGE
C-MOS TIME CODE GENERATOR/READER
- TOP VIEW -



PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL	PIN NO.	I/O	SYMBOL
1	I/O	DB5	17	I	CCS	33	-	VDD	49	I	C1M1	65	I	TCIN			
2	I/O	DB4	18	I	CWR	34	I/O	DA1	50	O	C1M0	66	O	DCLK			
3	I/O	DB3	19	I	CRD	35	I/O	DA0	51	O	C2M0	67	O	DATA			
4	I/O	DB2	20	O	INT	36	I	DSP	52	-	GND	68	O	RFLD			
5	I/O	DB1	21	I	STBY	37	O	DTSE	53	O	CKO	69	O	RDSY			
6	I/O	DB0	22	I	TST1	38	O	VRCK	54	I	CKIN	70	O	LPR			
7	O	STOP	23	I	TST2	39	I	SLLM	55	I	SLCK	71	O	BUSY			
8	I/O	D7	24	I	TST3	40	O	RVDO	56	I	GCSI	72	I	BA2			
9	I/O	D6	25	I	PON	41	I	RCSI	57	I	SI	73	-	VDD			
10	I/O	D5	26	I	FLD1	42	I	VITC	58	O	VTGO	74	I	BA1			
11	I/O	D4	27	I	RTIM	43	I	FRMI	59	O	VTO	75	I	BA0			
12	-	GND	28	I	CDIR	44	O	FRMO	60	O	LTCO	76	I	BWR			
13	I/O	D3	29	I	CTL1	45	O	GLSY	61	I	LRES	77	I	BRD			
14	I/O	D2	30	I/O	DWR	46	I	IIDI	62	I	VCEI	78	I	BCS			
15	I/O	D1	31	I/O	DA3	47	O	IIDO	63	O	LSHO	79	I/O	BD7			
16	I/O	IX0	32	I/O	DA2	48	O	VDO	64	I	C2M1	80	I/O	UD6			

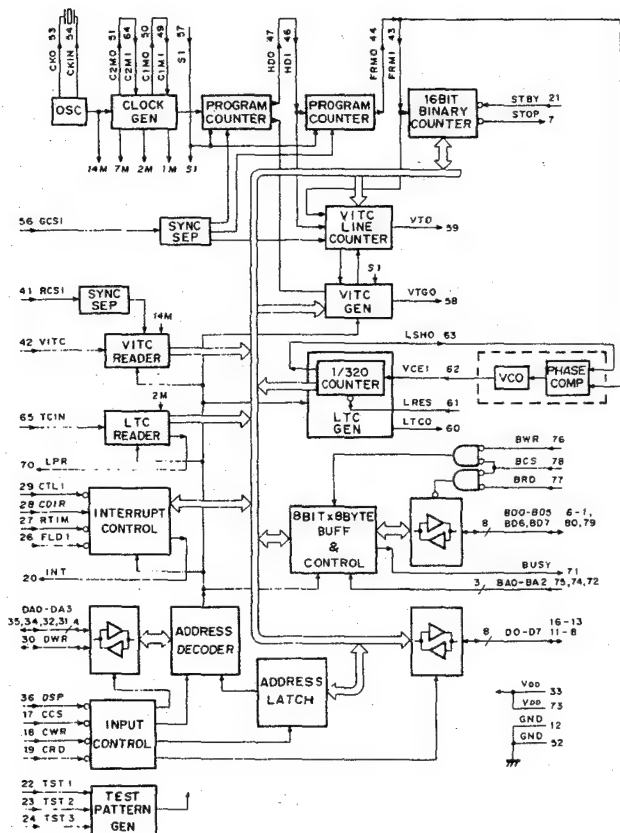
SIGNAL DESCRIPTION

BA0-BA2 B ADDRESS INPUTS
BCS B CHIP ENABLE INPUT ("L":ENABLE)
BD0-BD7 B DATA I/O
BRD B READ INPUT ("L":READ)
BUSY B BUSY OUTPUT
BWR B WRITE INPUT ("L":WRITE)
C1M1 SYSTEM CLOCK INPUT
C1M0 CLOCK 1 OUTPUT (CKIN X 1/16)
C2M1 LTC READ CLOCK INPUT
C2M0 CLOCK 2 OUTPUT (CKIN X 1/8)
CCS C CHIP ENABLE INPUT ("L":ENABLE) (when DSP is low)
ADDRESS LATCH ENABLE INPUT ("L":ENABLE) (when DSP is high)
CDIR CTL DIRECTION INPUT
CKIN SYSTEM CLOCK INPUT

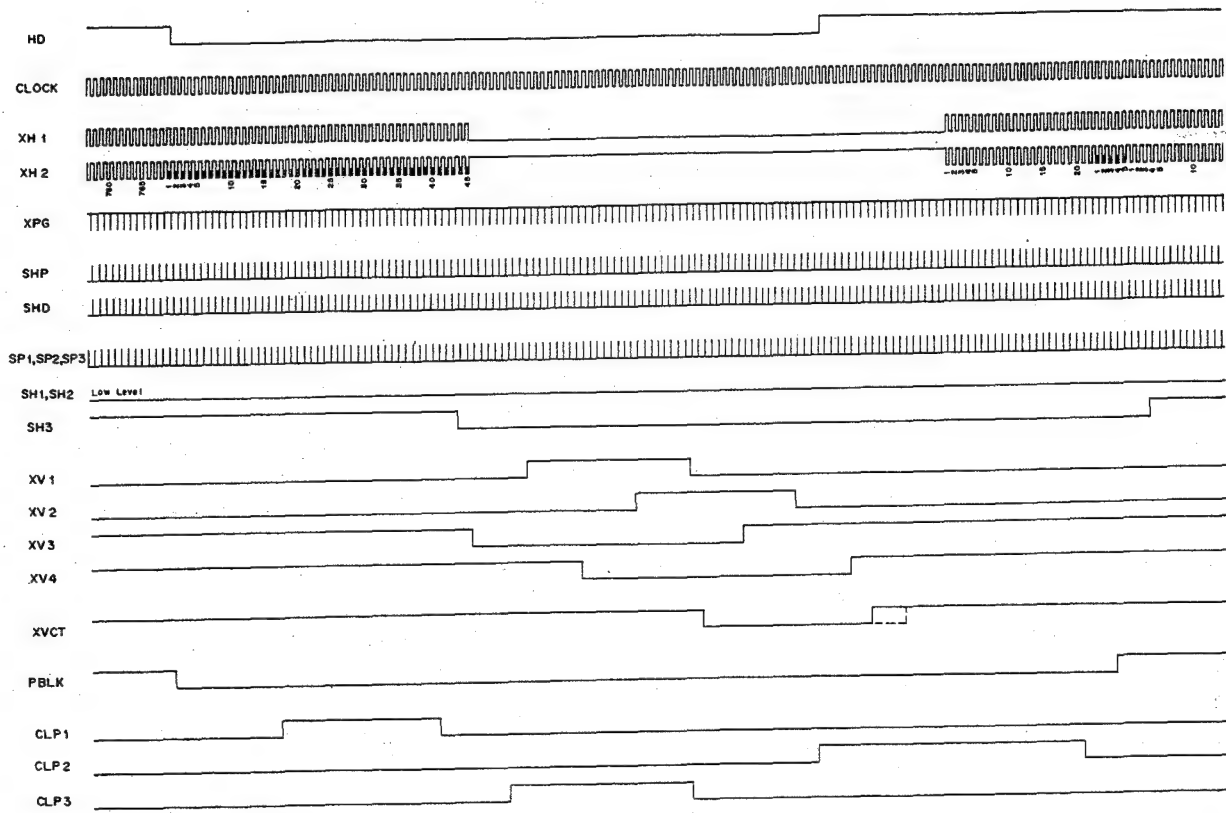
VIDEO SIGNAL FORMAT	CKIN
SMPT 29.97HZ 525LINE	14.318MHZ
EBU 25HZ 625LINE	14.300MHZ

CKO CLOCK OUTPUT
CRD C READ INPUT ("L":READ)
CTL1 CTL SIGNAL INPUT
CWR C WRITE INPUT ("L":WRITE)
D0-D7 DATA I/O (when DSP is low)/
ADDRESS INPUTS
DA0-DA3 E ADDRESS INPUTS (when DSP is high)
D ADDRESS OUTPUT (when DSP is low)
DATA DEMODULATED SERIAL DATA OUTPUT
DCLK DEMODULATED CLOCK OUTPUT
DSP DISPLAY BUS SELECT INPUT
DSP controls CCS, DA0-DA3 and DVR.
DTSE VITC DATA SEARCH FLAG OUTPUT
DWR WRITE ENABLE OUTPUT ("L":ENABLE) (when DSP is low)
E ADDRESS 4 INPUT (when DSP is high)
EA4 ADDRESS BUS INPUT
FLD1 FIELD REFERENCE INPUT ("L":FIELD 1)
FRM1 FRAME SIGNAL INPUT
FRMO FRAME SIGNAL OUTPUT
GCSI COMPOSITE SYNC INPUT
GLSY LOST SYNC FLAG OUTPUT
HDI HORIZONTAL SYNC INPUT
BDO HORIZONTAL SYNC OUTPUT
INT INTERRUPT REQUEST OUTPUT
LPR LTC READ REQUEST OUTPUT
LRES LTC COUNTER RESET INPUT ("L":RESET)
LSHO SYNCHRONOUS SIGNAL OUTPUT
LTCO LTC SIGNAL OUTPUT
PON SYSTEM RESET INPUT ("L":PON)
RCSI COMPOSITE SYNC INPUT
RDSY READ SYNC WORD DATA OUTPUT
RESS RESET INPUT ("L":RTIM)
RFLD FIELD DATA OUTPUT
RTIM TIME ADDRESS RESET INPUT ("L":RESET)
RVDO VITC READ DATA OUTPUT

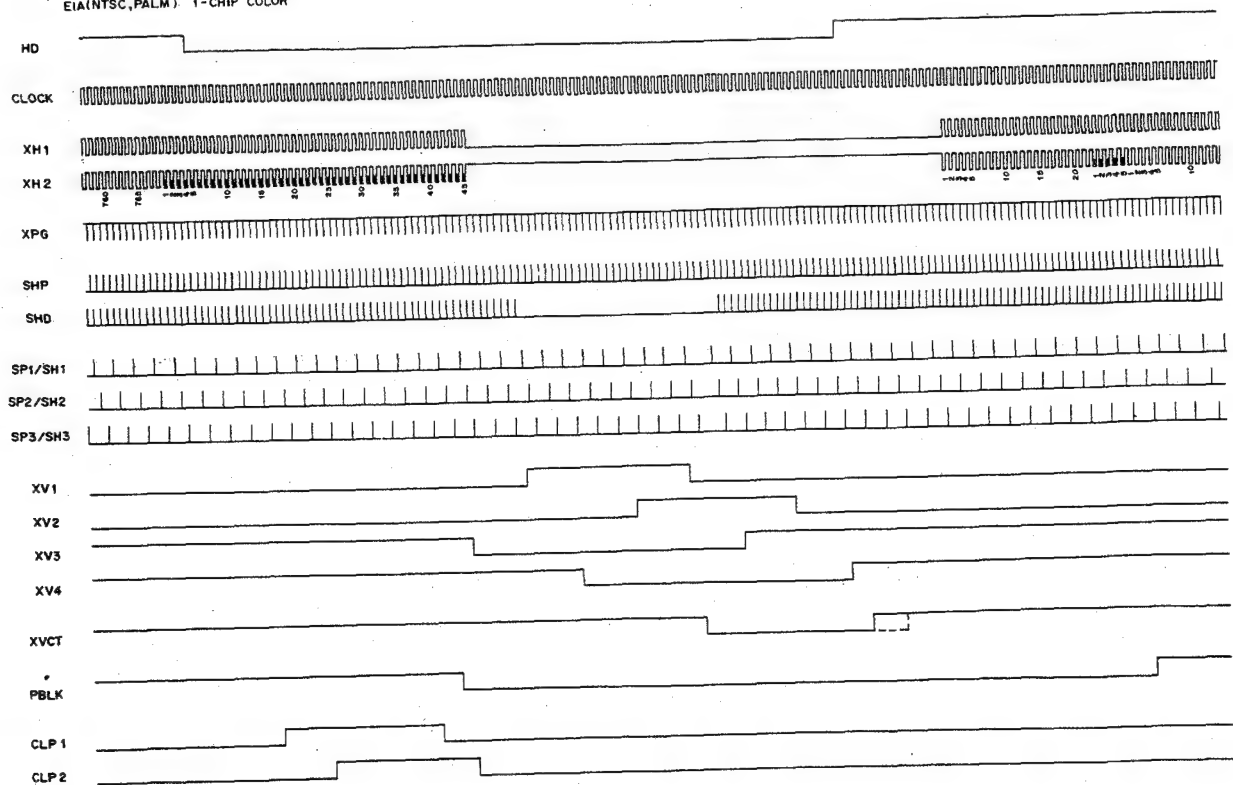
S1 SIGNAL FORMAT SELECT INPUT
"H":NTSC/PAL-M 29.94HZ 525LINE
"L":PAL/SECAM 25HZ 625LINE
SLCK SELECT CLOCK INPUT
SLCK SLCK "L" "H"
CKIN 14.318MHZ 14.5MHZ 7.159MHZ 7.25MHZ
SPEC SMPT EBU SMPT EBU
SLLM READ SIZE SELECT INPUT
STBY STANDBY READ FLAG INPUT
STOP STOP OUTPUT ("L":STOP)
TCIN LONGITUDINAL TIME AND CONTROL CODE INPUT
TST1-TST3 TEST INPUT
VCEI LTC CLOCK INPUT
VDO HORIZONTAL SYNC DRIVE OUTPUT
VITC VITC SIGNAL INPUT
VTGO VITC GATE SIGNAL OUTPUT
VTO VITC SIGNAL OUTPUT ("H":VITC)



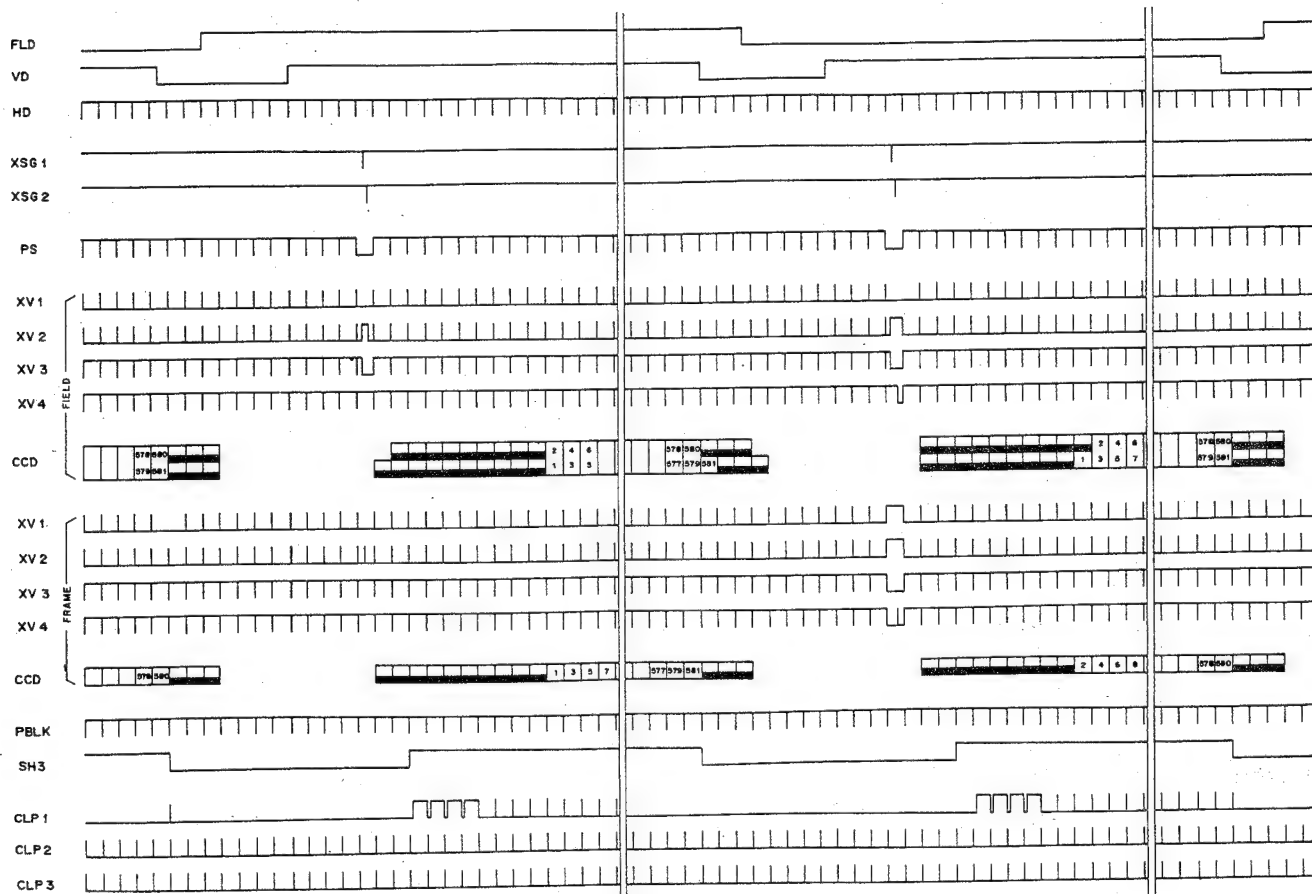
EIA (NTSC, PALM) 8/W, 3-CHIP COLOR



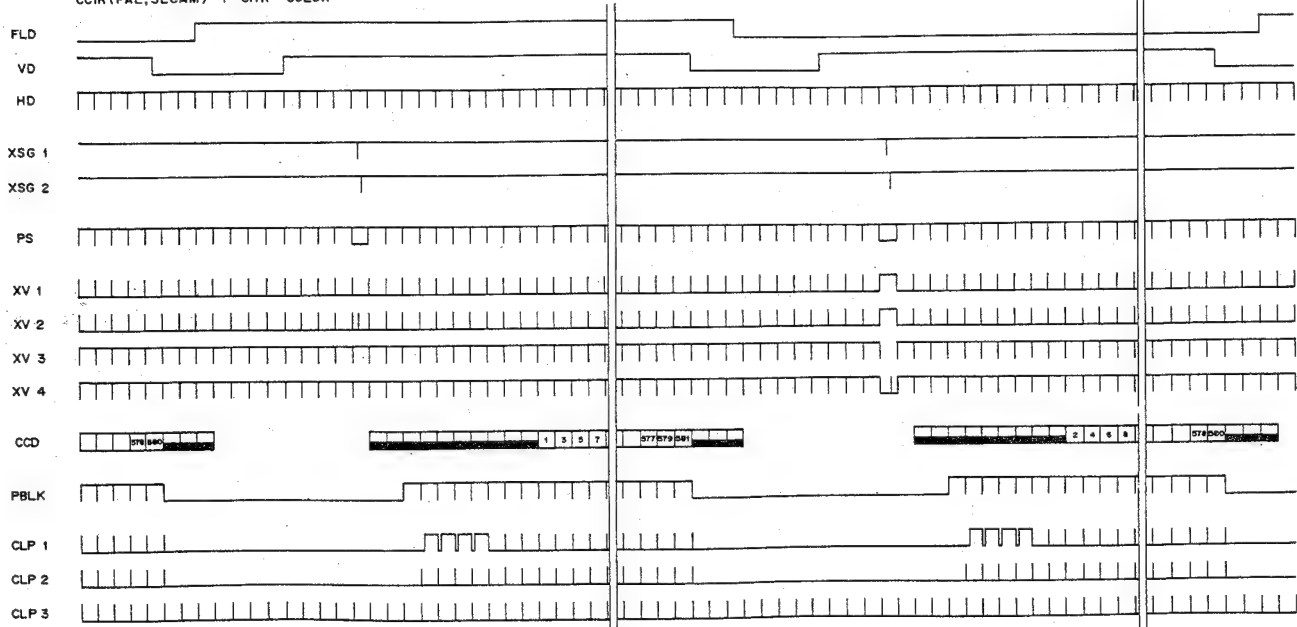
EIA (NTSC, PALM) 1-CHIP COLOR



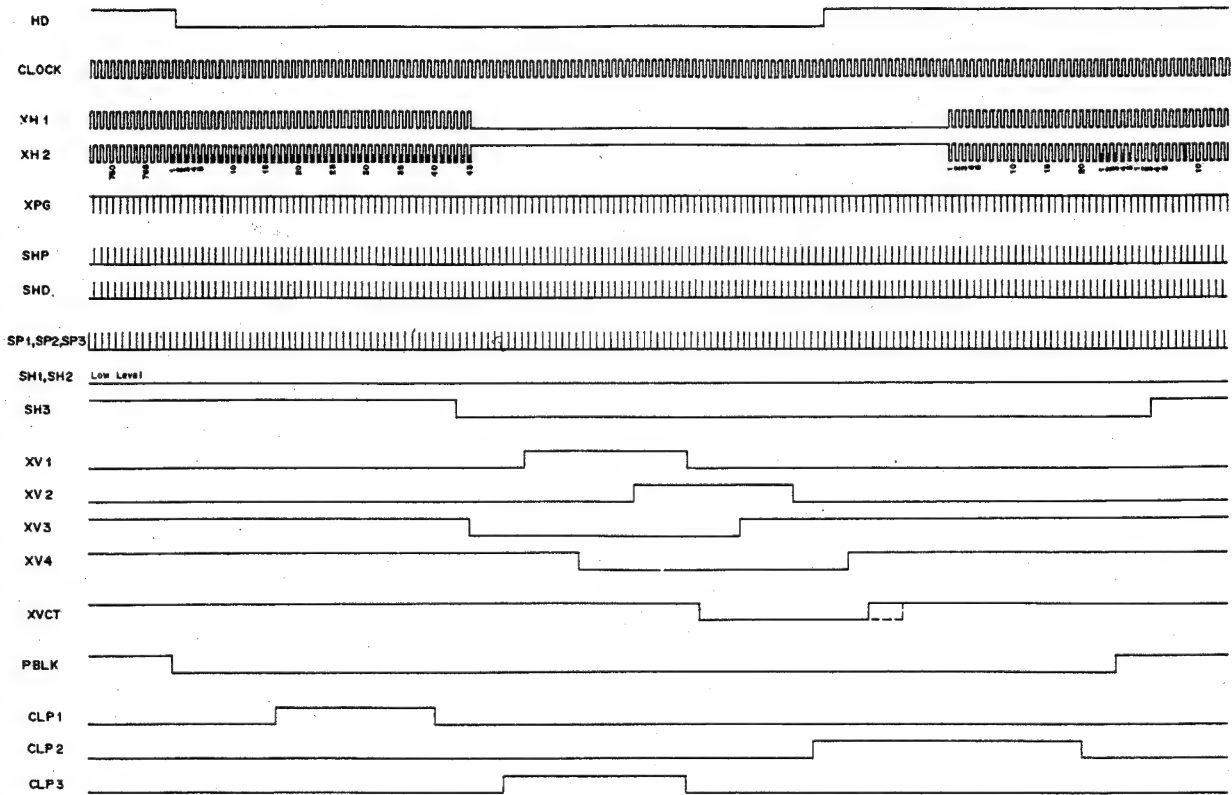
CCIR (PAL, SECAM) B/W, 3-CHIP COLOR



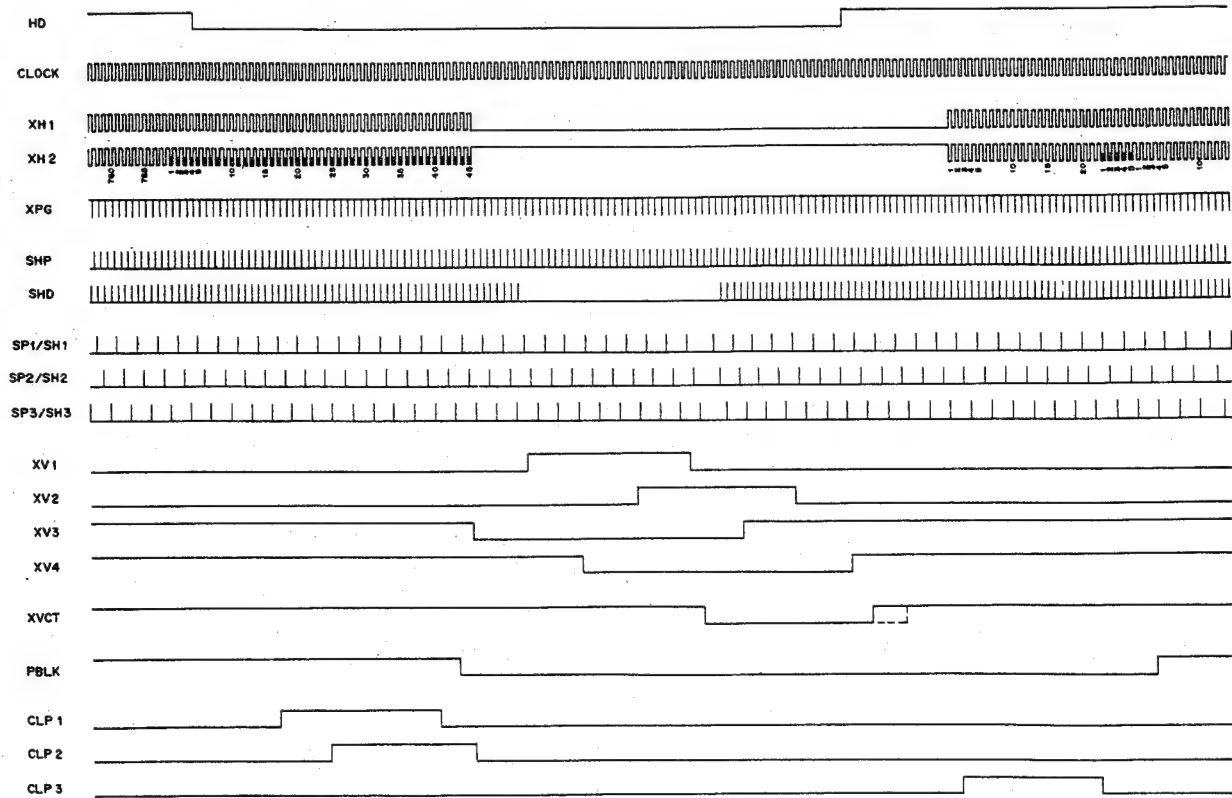
CCIR (PAL, SECAM) 1-CHIP COLOR



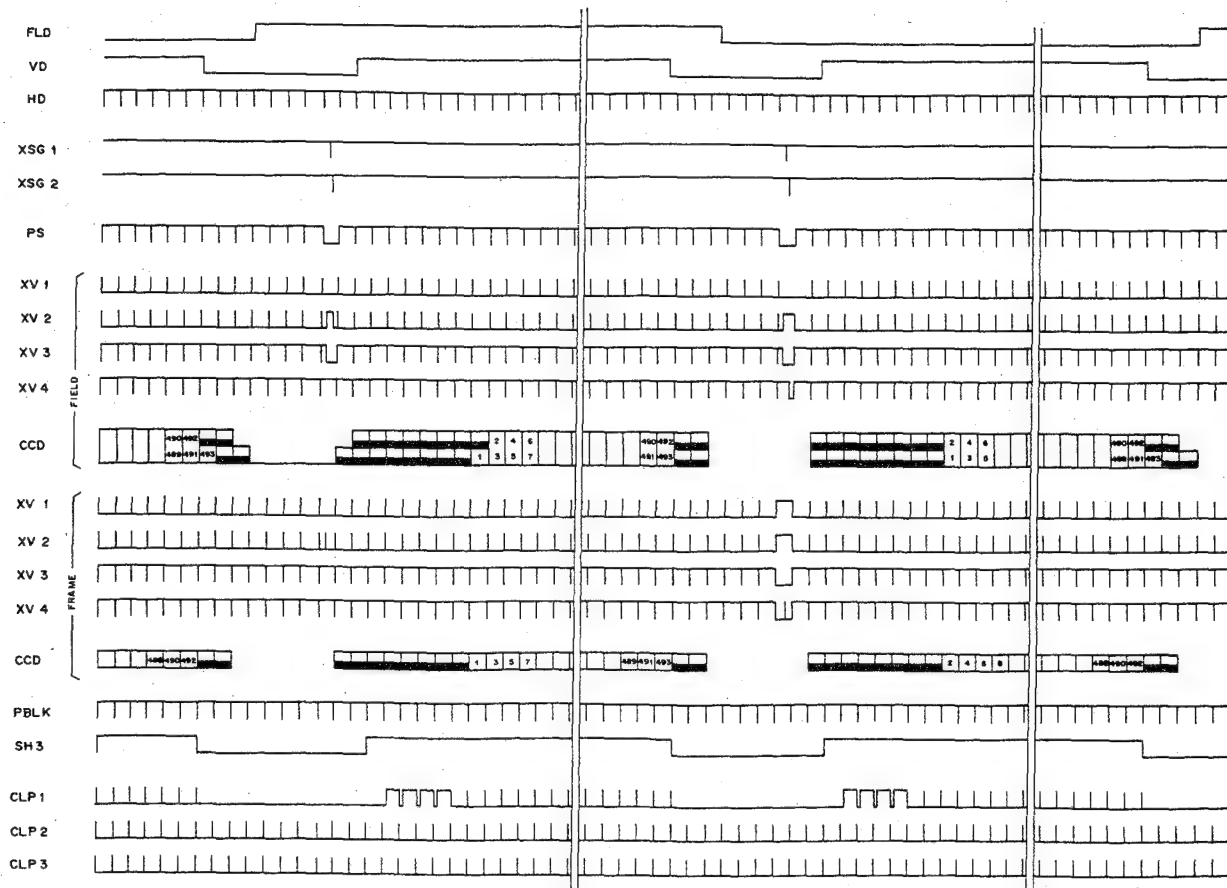
EIA (NTSC, PALM) 8/W, 3-CHIP COLOR



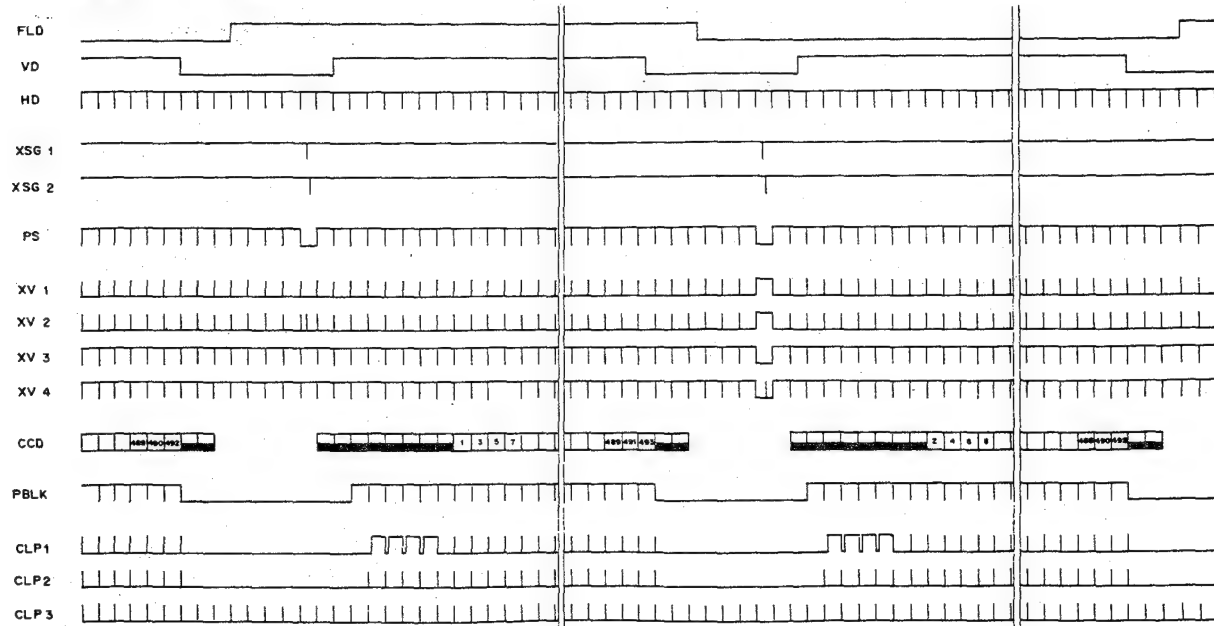
EIA(NTSC, PALM) 1-CHIP COLOR



EIA (NTSC, PALM) B/W, 3-CHIP COLOR

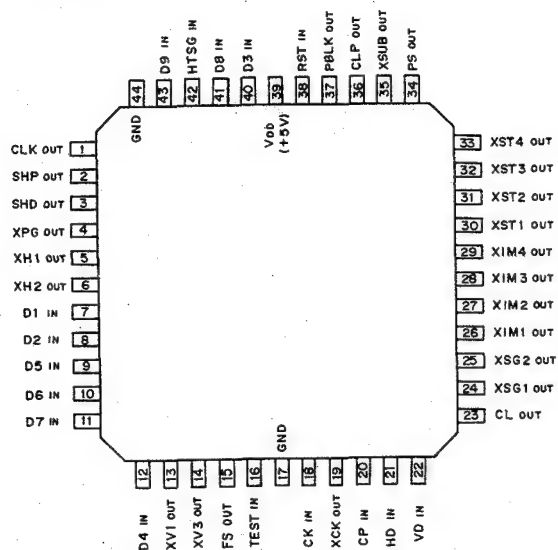


EIA (NTSC, PALM) 1-CHIP COLOR



CXD8002 (SONY)

C-MOS TIMING PULSE GENERATOR FOR CCD
- TOP VIEW -



MODE SELECT

	LOW LEVEL	HIGH LEVEL
D1	CCIR	EIA
D2	FRAME	FIELD

SHUTTER SPEED SELECT

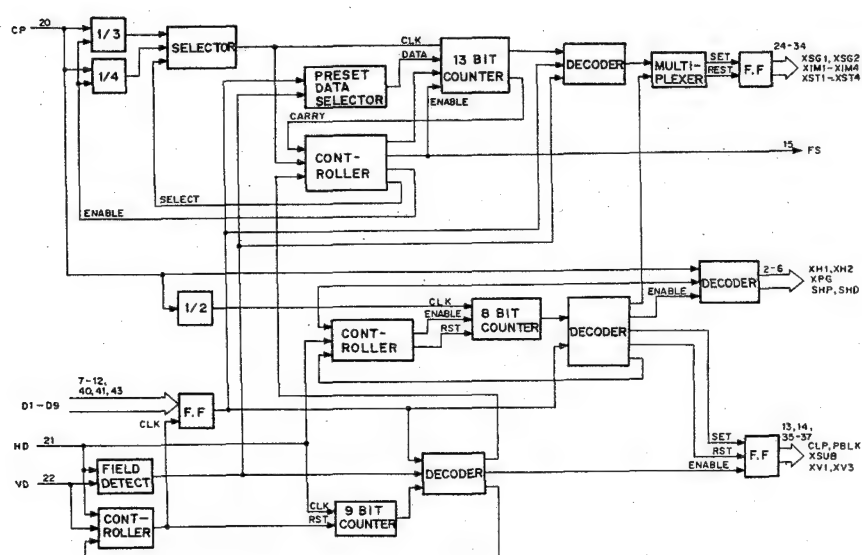
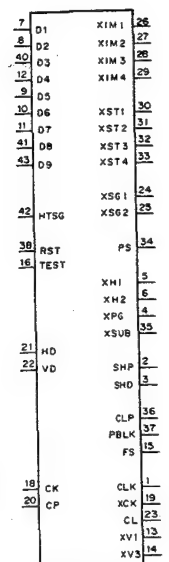
SHUTTER SPEED SELECT				SHUTTER SPEED (sec)
D4	D5	D6	D7	
0	0	0	1	OFF
0	0	1	1	1/125
0	1	0	1	1/250
0	1	1	1	1/500
1	0	0	1	1/1000
1	0	1	1	1/2000
1	1	0	1	1/4000
1	1	1	1	1/10000
X	X	X	0	1/100 (EIA) 1/60 (CCIR)

0 : LOW LEVEL
1 : HIGH LEVEL
X : DON'T CARE

```

CK      : CLOCK INPUTS
XCK     : INVERTED CLOCK OUTPUT
CLK, CL : CLOCK OUTPUTS
HD      : HORIZONTAL DRIVE INPUT
VD      : VERTICAL DRIVE INPUT
XSG1,XSG2 : CLOCK OUTPUTS FOR READ OUT FROM IMAGE SENSOR
XIM1 ~ XIM4 : CLOCK OUTPUTS FOR IMAGE REGISTER DRIVE OF CCD
XST1 ~ XST4 : CLOCK OUTPUTS FOR STORAGE REGISTER DRIVE OF CCD
PS      : VERTICAL DRIVER POWER SAVE PULSE OUTPUT
XH1, XH2 : HORIZONTAL REGISTER TRANSMISSION CLOCK OUTPUTS
XP      : PRE-CHARGE GATE PULSE OUTPUT
XSUB    : ELECTRIC CHARGE DISCHARGING PULSE OUTPUT
SHP     : PRE-CHARGE LEVEL SAMPLE & HOLD PULSE OUTPUT
SHD     : DATA LEVEL SAMPLE & HOLD PULSE OUTPUT
CLP     : CLAMP PULSE OUTPUT
PBLK    : PRE-BLANKING PULSE OUTPUT
FS      : FLAG
XV1, XV3 : CLOCK OUTPUTS FOR INTERFACE
HTSG    : READ OUT STOP SIGNAL INPUT
RST, TEST : TEST MODE SIGNAL INPUTS
D1 ~ D3, D8, D9 : MODE SELECT SIGNAL INPUTS
D4 ~ D7 : SHUTTER SPEED MODE SIGNAL INPUTS

```



Timing diagram for the 68000 microprocessor. The horizontal axis represents time in clock cycles, with a scale bar at the top indicating 100ns per division. The vertical axis lists the signals being monitored.

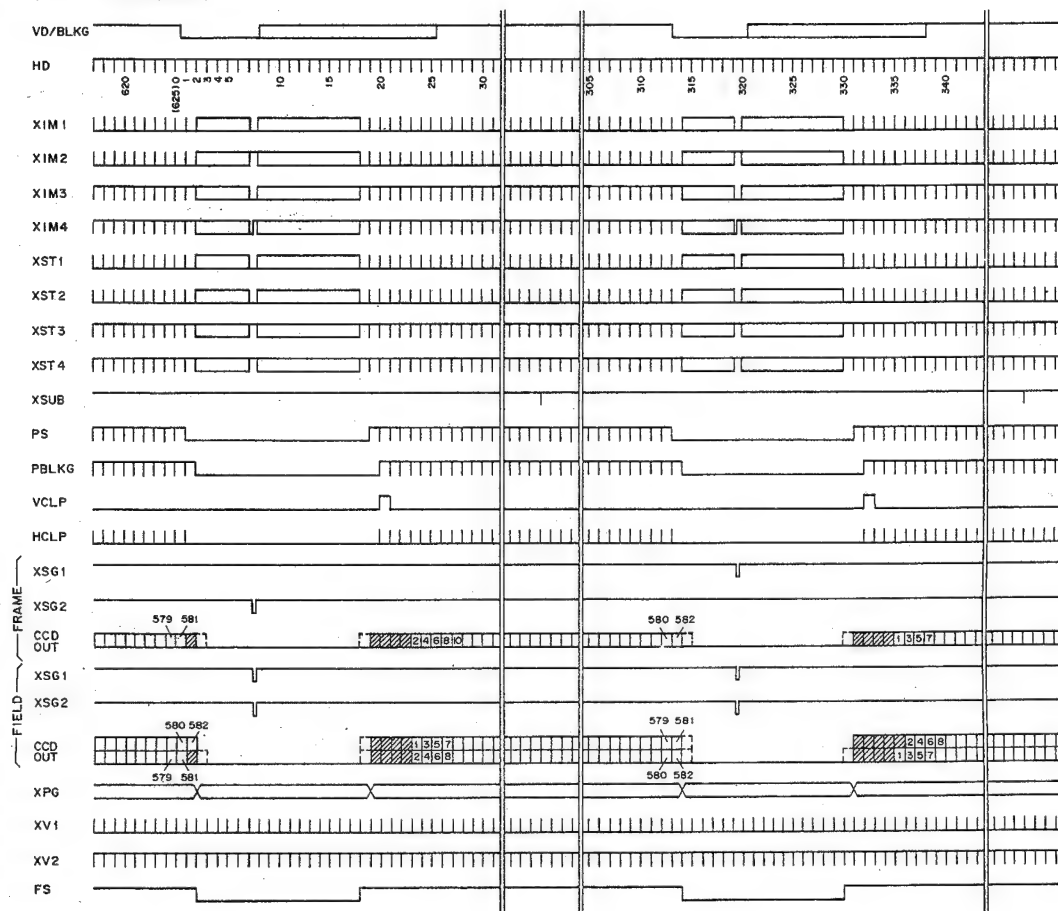
Signals shown:

- HD/BLKG
- CL
- XIM2/XST1
- XIM1/XST2
- XIM4/XST3
- XIM3/XST4
- XSUB
- PS
- XV1
- XV3
- PBLKG/VCLP
- HCLP
- NORMAL INVERT
- XH1
- XH2
- XPG
- SHP
- SHD

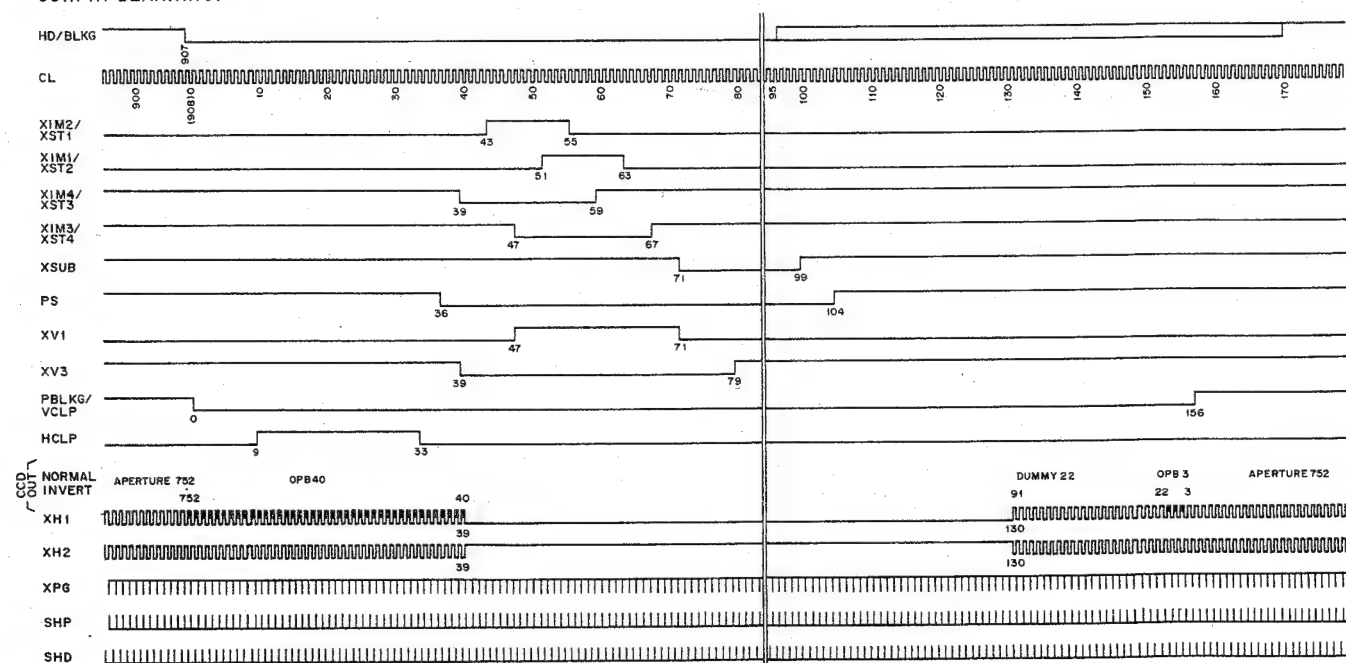
Key timing points and values are indicated on the diagram:

- CL: 909, 910, 10, 100, 110, 120, 130, 140, 150, 160, 165
- XIM2/XST1: 43, 55
- XIM1/XST2: 51, 63
- XIM4/XST3: 39, 59
- XIM3/XST4: 47, 67
- XSUB: 71, 99
- PS: 36, 104
- XV1: 47, 71
- XV3: 39, 79
- PBLKG/VCLP: 0, 142
- HCLP: 9, 33
- NORMAL INVERT: APERTURE 768, OPB 40
- XH1: 40, 39
- XH2: 39
- XPG: 39
- SHP: 39
- SHD: 39
- DUMMY 22, OPB 3, APERTURE 768

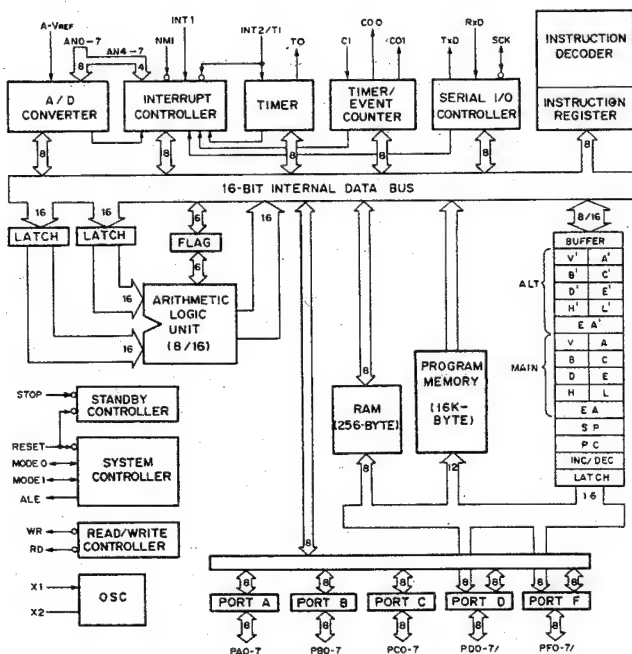
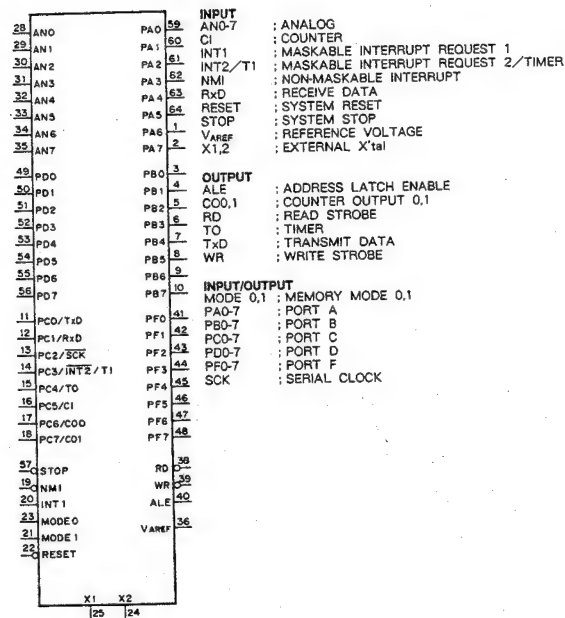
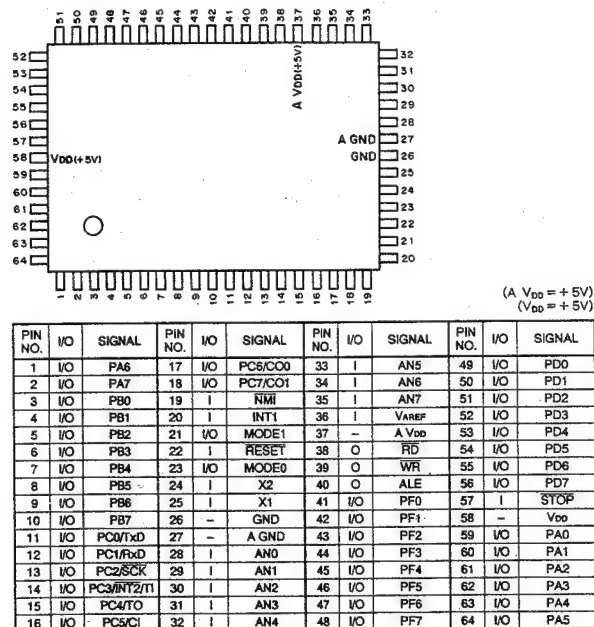
CCIR (V BLANKING)



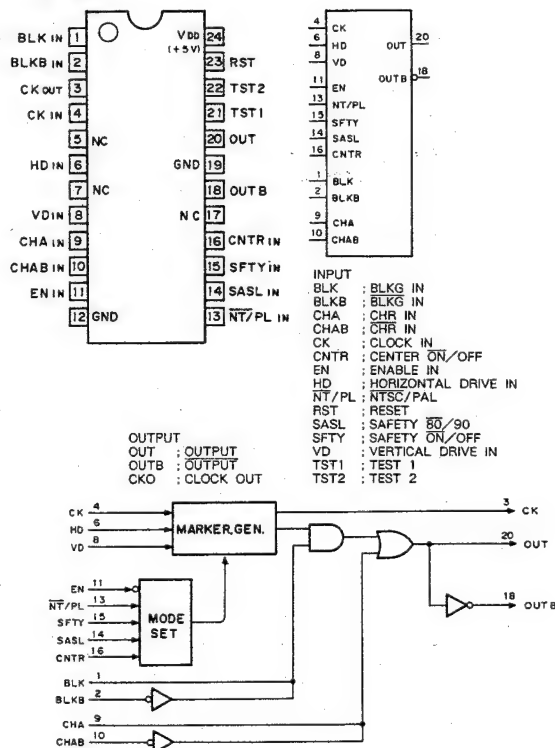
CCIR (H BLANKING)

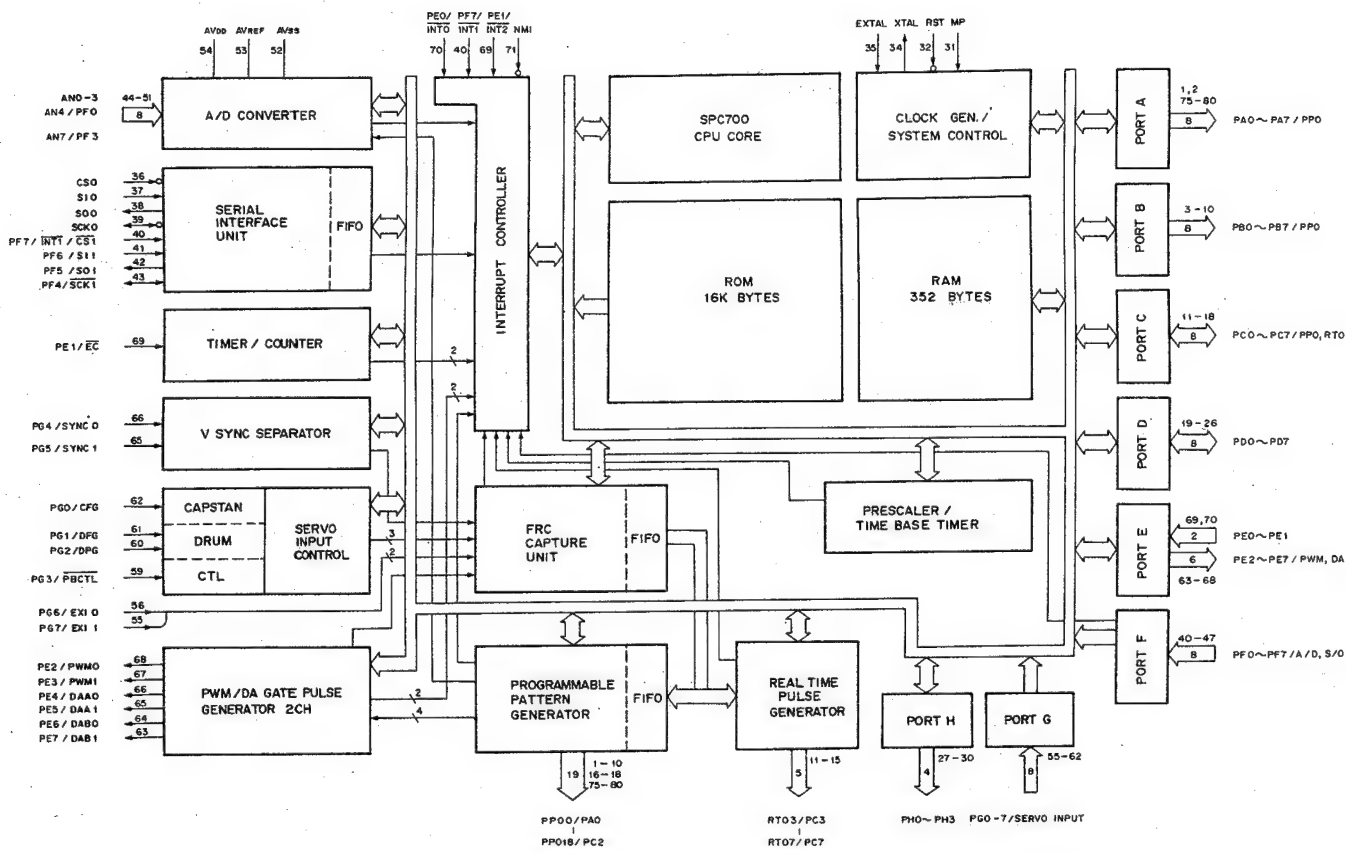


CXD8042Q (SONY) FLAT PACKAGE
C-MOS TIMECODE CONTROLLER
- TOP VIEW -

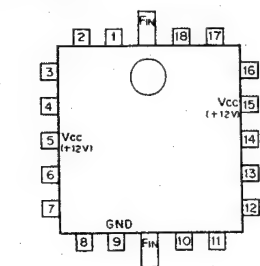


CXD8154M (SONY)
C-MOS GATE ARRAY
- TOP VIEW -

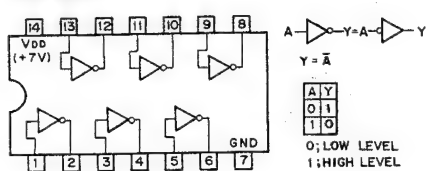




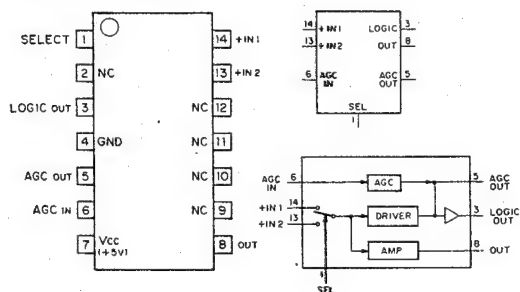
HA11423MP (HITACHI) FLAT PACKAGE
TV H/V SYNC SIGNAL PROCESSOR
— TOP VIEW —



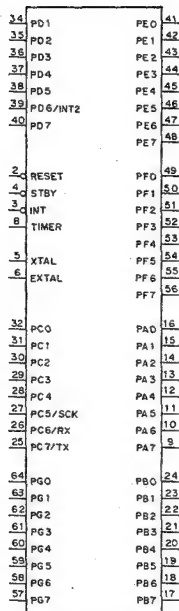
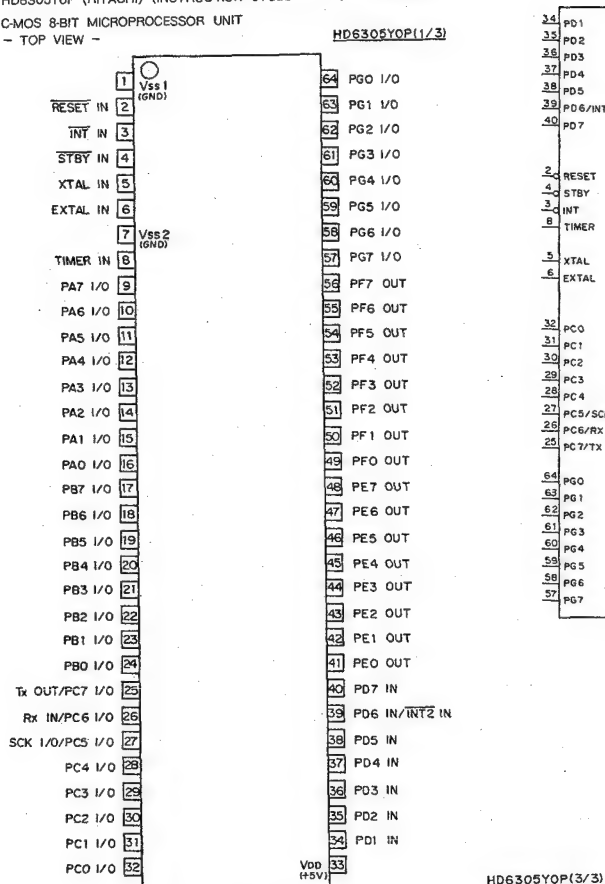
HD74AC04P-R (HITACHI)
C-MOS INVERTER
— TOP VIEW —



LA7205M (SANYO) FLAT PACKAGE
TAPE TOP/END DETECTOR
— TOP VIEW —

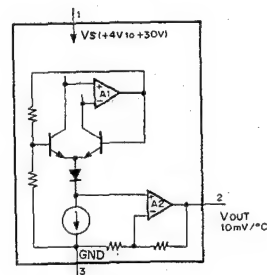


HD6305YOP (HITACHI) (INSTRUCTION CYCLE = 1 μ S : f_{clk} = 4MHz)
C-MOS 8-BIT MICROPROCESSOR UNIT
- TOP VIEW -

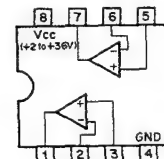


PA0~PA7 : 8-BIT I/O PORT A
PB0~PB7 : 8-BIT I/O PORT B
PC0~PC7 : 8-BIT I/O PORT C
PD1~PD7 : 7-BIT IN PORT D
PE0~PE7 : 8-BIT OUT PORT E
PFO~PF7 : 8-BIT OUT PORT F
PG0~PG7 : 8-BIT I/O PORT G
RESET : RESET IN
STBY : STANDBY IN
INT : INTERRUPT IN
INT2 : INTERRUPT IN
TIMER : TIMER CONTROL IN
TIMER2 : TIMER CONTROL IN
XTAL : CRYSTAL
EXTAL : EXTERNAL CRYSTAL IN
SCK : SERIAL INTERFACE CLOCK I/O
RX : SERIAL DATA RECEIVE
TX : SERIAL DATA TRANSMIT

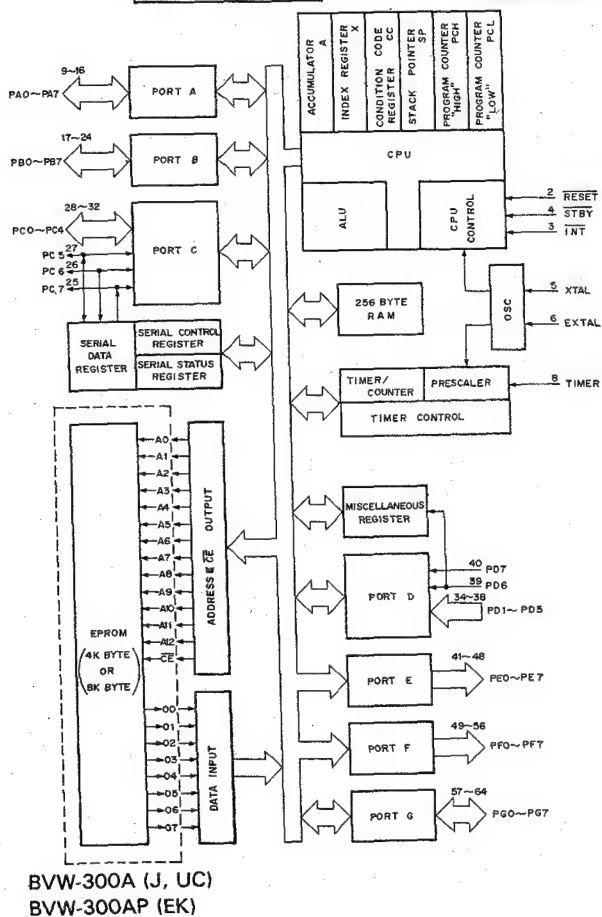
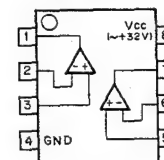
LM35DZ (NS)
BIPOLAR TEMPERATURE SENSOR



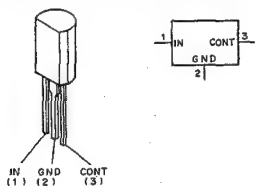
LM2903M (RAYTHEON) FLAT PACKAGE
DUAL VOLTAGE COMPARATORS
- TOP VIEW -



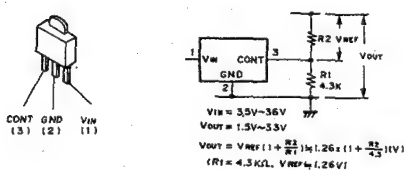
LM2904M (NSC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



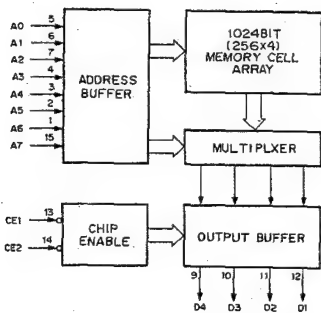
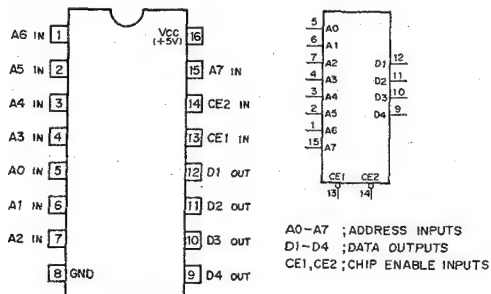
M5236L (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATOR



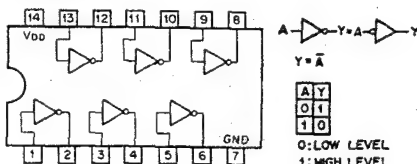
M5237ML (MITSUBISHI)
ADJUSTABLE VOLTAGE REGULATOR



MB7114LFF (FUJITSU) (ACCESS TIME $\approx 50nS$) FLAT PACKAGE
TTL 1024-BIT (256x4) PROM
- TOP VIEW -



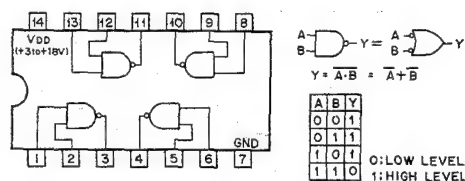
SN74HC04ANS (TI) FLAT PACKAGE
C-MOS INVERTER
- TOP VIEW -



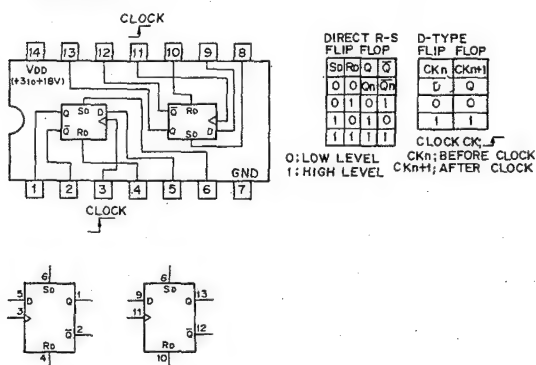
NOTE:

TYPE	V _{DD}
74HC04 TYPE	+5V
TC74AC04 TYPE	+2 to +5.5V
74ACT04 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

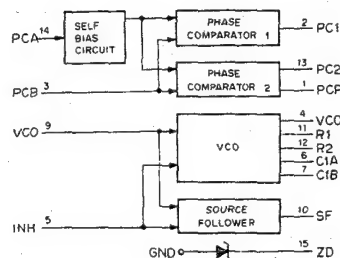
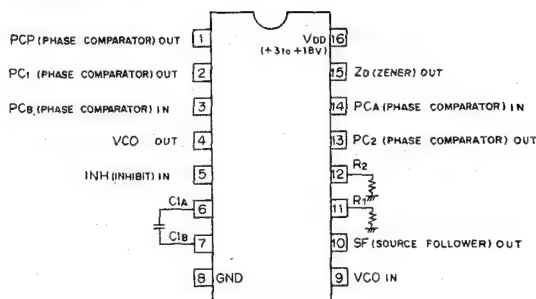
MC14011BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
- TOP VIEW -



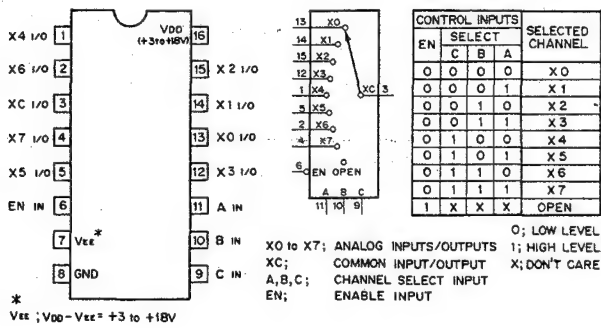
MC14013BF (MOTOROLA) FLAT PACKAGE
C-MOS D-TYPE FLIP-FLOP WITH DIRECT SET/RESET
- TOP VIEW -



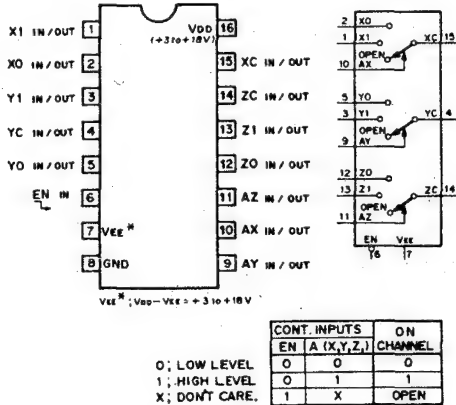
MC14046BF (MOTOROLA) FLAT PACKAGE
C-MOS PHASE LOCKED LOOP
- TOP VIEW -



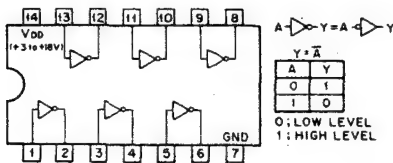
MC14051BF (MOTOROLA) FLAT PACKAGE
C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTEPlexer
- TOP VIEW -



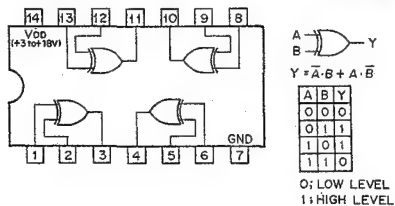
TC4053BFB (TOSHIBA) FLAT PACKAGE
MC14053BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTEPlexer
- TOP VIEW -



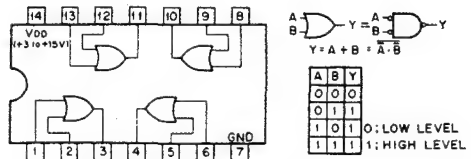
TC4069UBF (TOSHIBA) FLAT PACKAGE
MC14069UBF (MOTOROLA) FLAT PACKAGE
C-MOS INVERTER
- TOP VIEW -



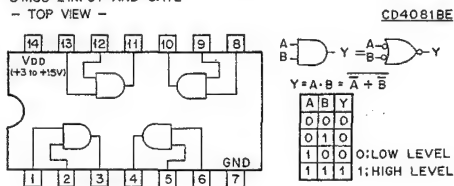
MC14070BF (MOTOROLA) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE
- TOP VIEW -



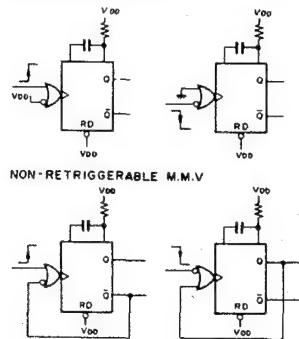
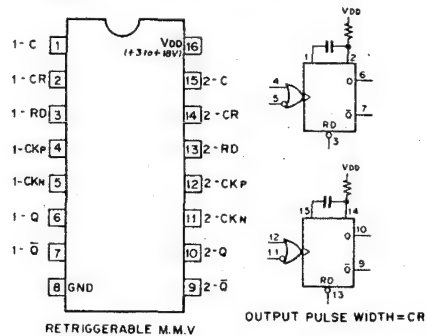
TC4071BF (TOSHIBA)
MC14071BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-INPUT OR GATE
- TOP VIEW -



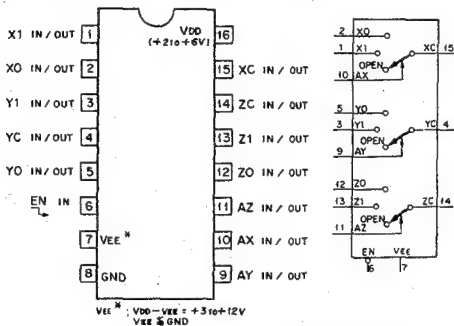
MC14081BF (MOTOROLA) FLAT PACKAGE
C-MOS 2-INPUT AND GATE
- TOP VIEW -



TC4538BF (TOSHIBA) FLAT PACKAGE
TC74HC4538F (TOSHIBA) FLAT PACKAGE
MC14538BF (MOTOROLA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
- TOP VIEW -



MC74HC4053F (MOTOROLA) FLAT PACKAGE
TC74HC4053AF (TOSHIBA) FLAT PACKAGE
C-MOS 2-CHANNEL MULTIPLEXER/DEMULTIPLEXER
— TOP VIEW —

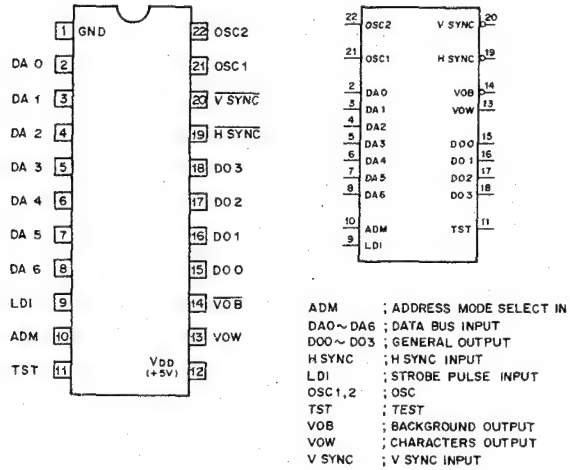


VEE*: VDD - VEE = +3 to +12V
VDD & GND

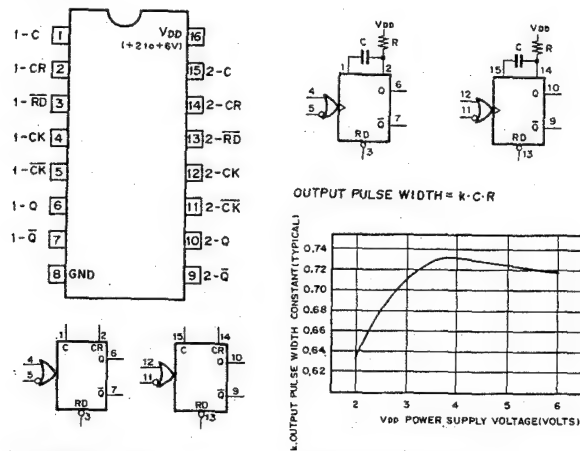
0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

CONT. INPUTS	EN	A (X,Y,Z)	O/N CHANNEL
0	0	0	0
0	1	1	1
1	X	X	OPEN

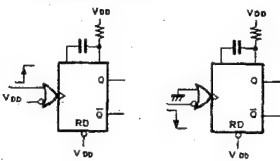
MN1237AD (MATSUSHITA)
C-MOS INDICATES DATA OF 60 CHARACTERS CRT INTERFACE
— TOP VIEW —



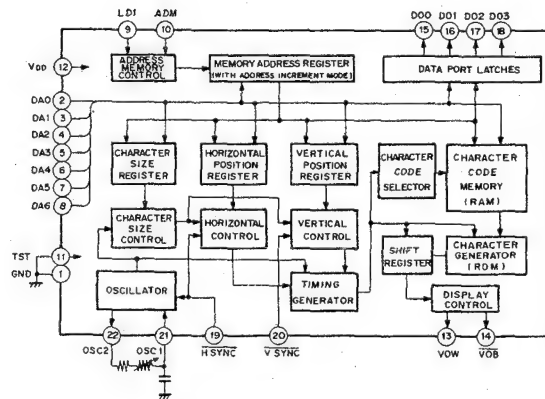
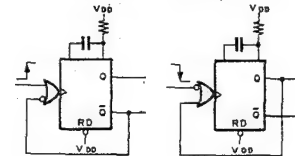
MC74HC4538F (MOTOROLA) FLAT PACKAGE
TC74HC4538F (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE/NON-RETRIGGERABLE MONOSTABLE MULTIVIBRATOR
— TOP VIEW —



RETRIGGERABLE M.M.V.

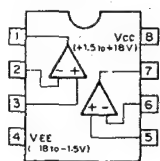


NON-RETRIGGERABLE M.M.V.

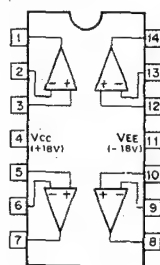


A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z
0 1 2 3 4 5 6 7 8 9
. : - ? / □

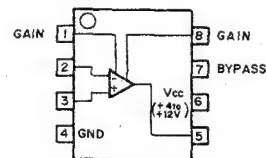
NJM062M (JRC) FLAT PACKAGE
TL062CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(JFET INPUT)
— TOP VIEW —



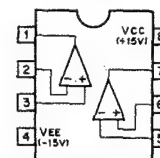
NJM064M (JRC) FLAT PACKAGE
TL064CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET INPUT)
— TOP VIEW —



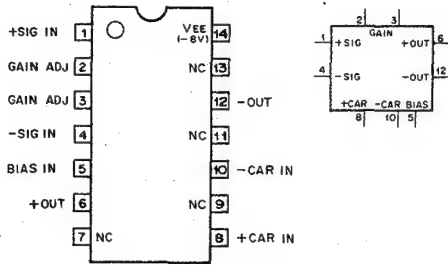
NJM386M (JRC) FLAT PACKAGE
AUDIO POWER AMPLIFIER
— TOP VIEW —



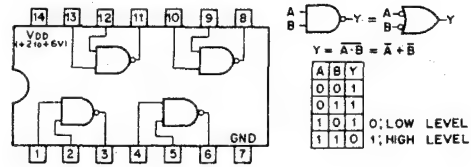
NJM4559M (JRC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
— TOP VIEW —



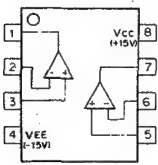
RC1496M (RAYTHEON) FLAT PACKAGE
BALANCED MODULATOR/DEMODULATOR
- TOP VIEW -



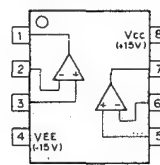
SN74HC00NS (TI) FLAT PACKAGE
C-MOS 2-INPUT NAND GATE
- TOP VIEW -



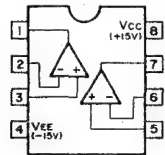
RC2041MD (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



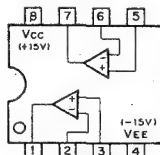
RC2043MD (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



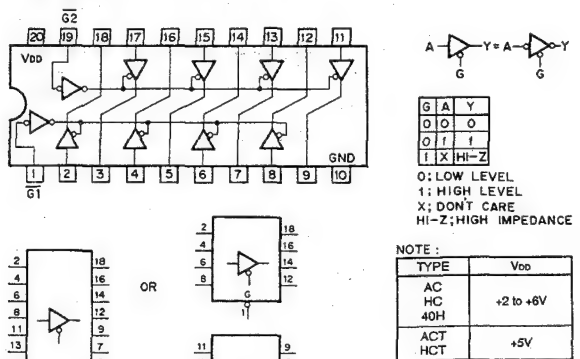
RC4556MA (RAYTHEON) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(WIDE BAND, DECOMPENSATED)
- TOP VIEW -



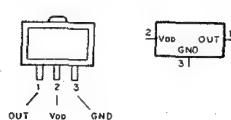
RC4558M (RAYTHEON) FLAT PACKAGE
μPC4558G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



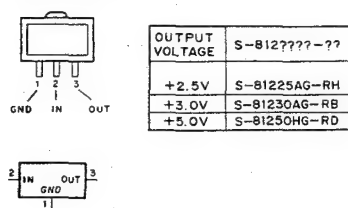
SN74HC244NS (TI) FLAT PACKAGE
C-MOS BUS BUFFER WITH 3-STATE OUTPUTS
- TOP VIEW -



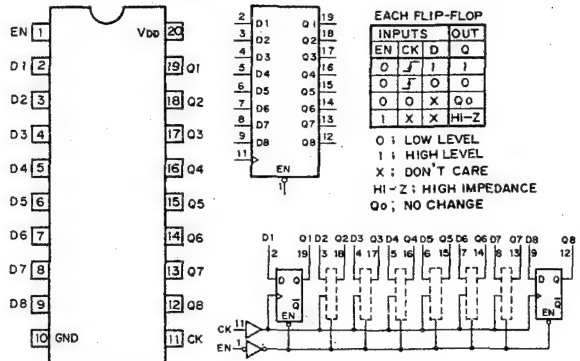
S-8054HN-CB (SEIKO)
+6V VOLTAGE DETECTOR WITH N-CHANNEL OPEN DRAIN OUTPUT
- TOP VIEW -



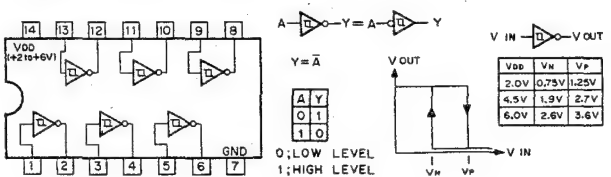
S-81230AG-RB (SEIKO) FLAT PACKAGE
THREE TERMINAL POSITIVE VOLTAGE REGULATOR
- TOP VIEW -



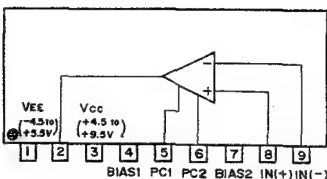
SN74HC574NS (TI) (V_{DD} = +2 to +6V) FLAT PACKAGE
C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP
- TOP VIEW -



SN74HC14NS (TI) FLAT PACKAGE
C-MOS SCHMITT TRIGGER INVERTER
- TOP VIEW -



SBX1588 (SONY)
VIDEO AMPLIFIER
- SIDE VIEW -



BVW-300A (J, UC)
BVW-300AP (EK)

SN74LS123NS (TI) FLAT PACKAGE
TTL RETRIGGERABLE MONOSTABLE MULTIVIBRATOR WITH DIRECT RESET

TOP VIEW

INPUTS OUTPUTS

Rd	A	B	Q
0	X	X	0
0	1	X	0
0	X	0	1
0	1	0	1
1	0	1	0
1	1	1	1
1	0	1	1
1	1	0	1

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

OUTPUT PULSE WIDTH

$T_w = 0.28 \left(1 + \frac{700}{R}\right) CR$
 $T_{L123} = 0.33 \left(1 + \frac{700}{R}\right) CR$
 $T_w = 0.25 \left(1 + \frac{700}{R}\right) CR$
 $T_{L123} = 0.29 \left(1 + \frac{700}{R}\right) CR$
 $T_w = 0.45 CR$

TC4013BF (TOSHIBA) FLAT PACKAGE
TC504013BF (TOSHIBA) FLAT PACKAGE
C-MOS D-TYPE FLIP FLOP WITH DIRECT SET/RESET

TOP VIEW

DIRECT R-S FLIP FLOP

Sd	Rd	Q
0	0	0
0	1	0
1	0	1
1	1	1

D-TYPE FLIP FLOP

CKn	CKnH	Q
0	0	Q
0	1	0
1	0	1
1	1	1

CLOCK CKn: BEFORE CLOCK CKnH; AFTER CLOCK CKnH

0; LOW LEVEL
1; HIGH LEVEL

TC4023BF (TOSHIBA) FLAT PACKAGE
C-MOS 3-INPUT NAND GATE

TOP VIEW

$Y = A \cdot B \cdot C = \overline{\overline{A} + \overline{B} + \overline{C}}$

A	B	C	Y
X	X	0	1
X	0	X	1
0	X	X	1
1	1	1	0

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

TC4030BFH8 (TOSHIBA) FLAT PACKAGE
C-MOS EXCLUSIVE OR GATE

TOP VIEW

$Y = A \oplus B \oplus C \oplus D$

A	B	C	D	Y
0	0	0	0	0
0	0	0	1	1
0	0	1	0	1
0	0	1	1	0
0	1	0	0	1
0	1	0	1	0
0	1	1	0	0
0	1	1	1	1
1	0	0	0	1
1	0	0	1	0
1	0	1	0	0
1	0	1	1	1
1	1	0	0	0
1	1	0	1	1
1	1	1	0	1
1	1	1	1	0

0; LOW LEVEL
1; HIGH LEVEL

TC4049BF (TOSHIBA) FLAT PACKAGE
C-MOS INVERTING TYPE BUFFER/CONVERTER

TOP VIEW

$Y = \overline{A}$

A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

MC14050BF (MOTOROLA) FLAT PACKAGE
TC4050BF (TOSHIBA) FLAT PACKAGE
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER

TOP VIEW

$Y = A$

A	Y
0	0
1	1

0; LOW LEVEL
1; HIGH LEVEL

TC40H004F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER

TOP VIEW

$Y = \overline{A}$

A	Y
0	1
1	0

0; LOW LEVEL
1; HIGH LEVEL

TC40H241F (TOSHIBA) FLAT PACKAGE
C-MOS 3-STATE SCHMITT TRIGGER BUFFER/LINE DRIVER

TOP VIEW

$Y = A \oplus B \oplus C$

A	B	C	Y
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	0
1	1	0	0
1	1	1	1

HI-Z; HIGH IMPEDANCE

TC4512BF (MOTOROLA) FLAT PACKAGE
C-MOS 8-CHANNEL DATA SELECTOR/MULTIPLEXER

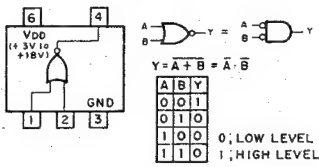
TOP VIEW

CONTROL INPUTS OUTPUT

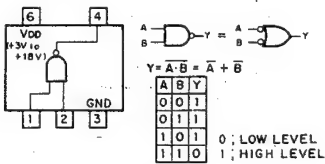
EN/INH	C	B	A	SC
0	0	0	0	S0
0	0	0	1	S1
0	0	1	0	S2
0	0	1	1	S3
0	1	0	0	S4
0	1	0	1	S5
0	1	1	0	S6
0	1	1	1	S7
1	X	X	X	GND
1	X	X	X	OPEN

0; LOW LEVEL
1; HIGH LEVEL
X; DON'T CARE

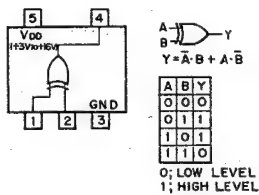
TC4S01F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NOR GATE
— TOP VIEW —

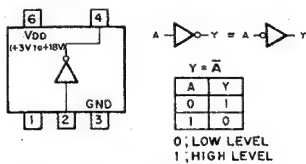
TC4S11F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE
— TOP VIEW —

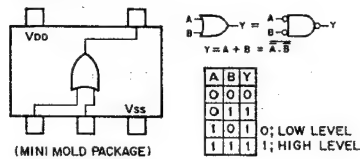
TC4S30F (TOSHIBA) FLAT PACKAGE

C-MOS EXCLUSIVE OR GATE
— TOP VIEW —

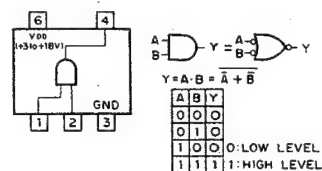
TC4S69F (TOSHIBA) FLAT PACKAGE

TC4SU69F (TOSHIBA) FLAT PACKAGE
C-MOS INVERTER BUFFER
— TOP VIEW —

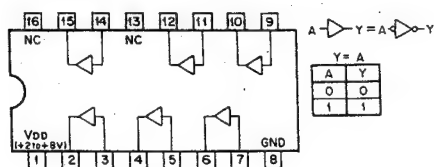
TC4S71F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT OR GATE
— TOP VIEW —

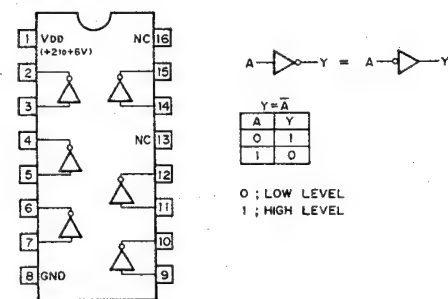
TC4S81F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT AND GATE
— TOP VIEW —

TC50H001F (TOSHIBA) FLAT PACKAGE

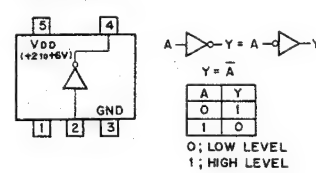
C-MOS NON-INVERTING TYPE BUFFER/CONVERTER
— TOP VIEW —

TC74HC4049F (TOSHIBA) FLAT PACKAGE

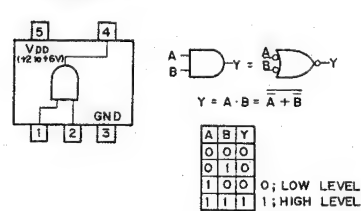
C-MOS HEX BUFFER/CONVERTER (INVERTING)
— TOP VIEW —

SC7S04F (MOTOROLA) FLAT PACKAGE

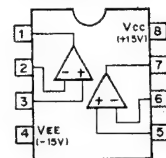
TC7S04F (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER
— TOP VIEW —

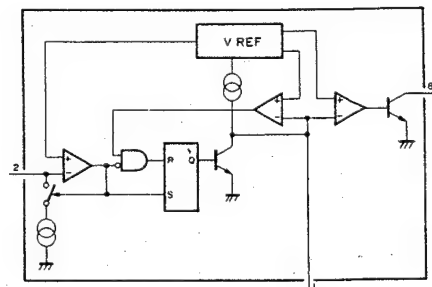
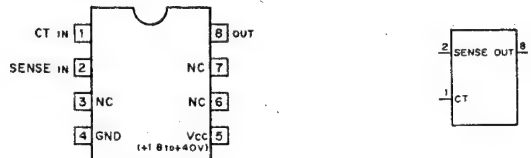
TC7S08F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT AND GATE
— TOP VIEW —

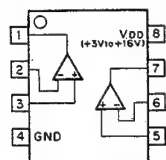
TL072CPS (TI) FLAT PACKAGE

OPERATIONAL AMPLIFIER
(LOW-NOISE, JFET-INPUT)
— TOP VIEW —

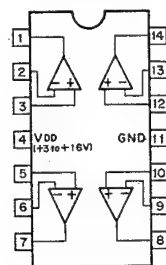
TL7700CPS (TI) FLAT PACKAGE

VARIABLE SUPPLY VOLTAGE SUPERVISOR
— TOP VIEW —

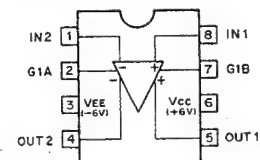
TLC27L2CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
- TOP VIEW -



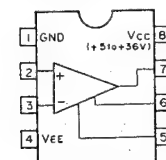
TLC27L4CN (TI)
CMOS OPERATIONAL AMPLIFIER
- TOP VIEW -



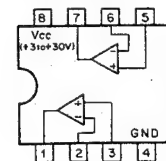
μPC1663G (NEC) FLAT PACKAGE
WIDEBAND VIDEO AMPLIFIER
- TOP VIEW -



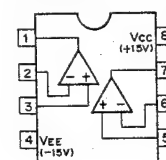
μPC311G2 (NEC) FLAT PACKAGE
VOLTAGE COMPARATOR
- TOP VIEW -



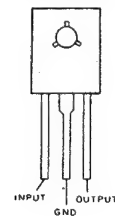
μPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPLIFIERS
- TOP VIEW -



μPC4572G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER (WIDE BAND, LOW NOISE)
- TOP VIEW -

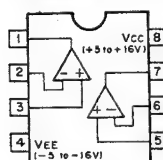


μPC78N 77H (NEC)
POSITIVE VOLTAGE REGULATOR
- FRONT VIEW -

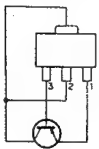


OUTPUT VOLTAGE	μPC78N77H
+5V	μPC78N05H
+6V	μPC78N08H
+10V	μPC78N10H
+12V	μPC78N12H
+15V	μPC78N15H
+18V	μPC78N18H
+24V	μPC78N24H

μPC812G2 (NEC) FLAT PACKAGE
OPERATIONAL AMPLIFIER (JFET INPUT)
- TOP VIEW -

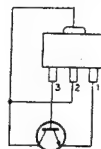


TOP VIEW (SCALE 4/1)

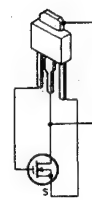


2SA1213
2SB798

TOP VIEW (SCALE 4/1)

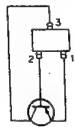


2SC2873
2SD1615A



2SK612

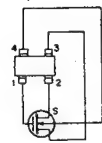
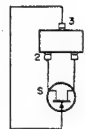
TOP VIEW (SCALE 4/1)



2SA1226
2SA1462
2SA1611
2SA1162
2SA812
2SB624

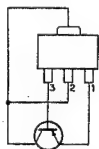
2SK508

TOP VIEW (SCALE 4/1)



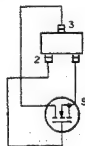
3SK163

2SA1463
(SCALE 4/1)
TOP VIEW

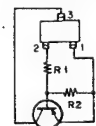


2SK620

TOP VIEW (SCALE 2/1)

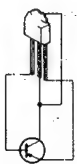


TOP VIEW (SCALE 4/1)



DTA114YK
(R1 = 10K, R2 = 47K)
DTA144EU

2SB907

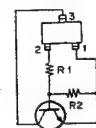


2SD1221

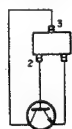


DTC114EU (R1 = 10K, R2 = 10K)
DTC114YU (R1 = 10K, R2 = 47K)

TOP VIEW (SCALE 4/1)

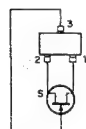


TOP VIEW (SCALE 4/1)



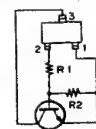
2SC1009A
2SC1623
2SC2713
2SC2757
2SC3360
2SC3661
2SC4177
2SC4178
2SC4213
2SD596
NTM2369

TOP VIEW (SCALE 4/1)



2SK209
2SK94

TOP VIEW (SCALE 4/1)

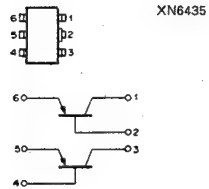


DTC144EU
(R1 = 47K, R2 = 47K)

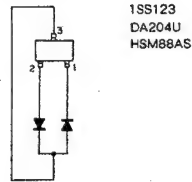
TRANSISTOR, DIODE

(SCALE 6/1)

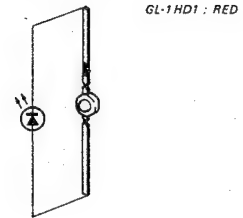
TOP VIEW



TOP VIEW (SCALE 4/1)

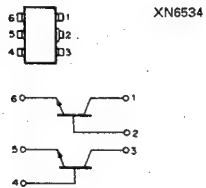


(SCALE 2/1)

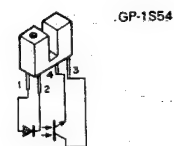
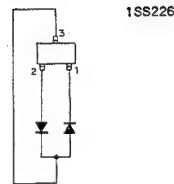


(SCALE 6/1)

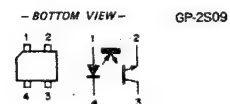
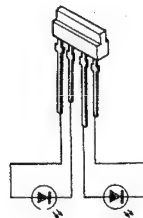
TOP VIEW



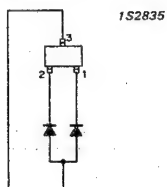
(SCALE 4/1)
TOP VIEW



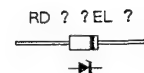
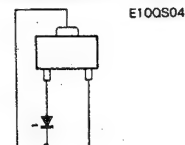
BR0035 : RED



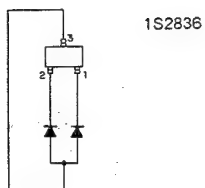
TOP VIEW (SCALE 4/1)



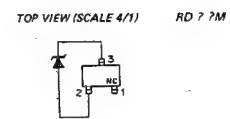
TOP VIEW (SCALE 4/1)



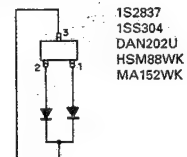
(SCALE 4/1)
TOP VIEW



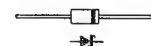
EBR3402S : RED



TOP VIEW (SCALE 4/1)



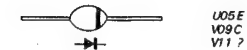
ERA81-004



S801-05CP



GL-5LR40 : RED



SECTION 11
SCHEMATIC DIAGRAMS

回路図内において、REF. NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams, the following marks are described near by reference number.
These are parts data at factory.

CAPACITOR(C)

AL	}	ELECTROLYTIC
AS		
TA	}	TANTALUM
CA	}	CERAMIC
CC		
CCS		
CM		
CS	}	MYLAR
MPS		
PP		
PS		
PT	}	DIPPED MICA
MD		
MS		MICA

RESISTOR(R)
VARIABLE RESISTOR(RV)

RC	}	CARBON
RD		
RF	}	FUSE
RN	}	METAL
RS		
RW	}	WIREWOUND

CIRCUIT FUNCTION OF THE SCHEMATIC DIAGRAMS

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
CAMERA	CN-273	Connector PCB for BI-22, 23 and 24
	BI-22 BI-23 BI-24	CCD mount
	*3 TG-57P TG-162P TG-163 TG-121	Timing Generator
	*3 PA-101 PA-155	Pre-amp(Sample & Hold)
	DR-84	CCD Driver
	*3 VA-83 VA-168	Video Amp, Black Set, Total Gain Chage, Shading Compensator
	IE-30AP IE-31	Image Enhancer Aperture
	PR-176 PR-177/ BP-020 PR-178/ BP-021	Gamma, Masking, Knee, Slope, W.Clip, Dynamic Contrast Control
	EN-79P	Y/R-Y/B-Y Signal Generator for VTR, Encoder, Color Bars Generator
	SG-152P SG-157P	Sync Generator, Genlock for TC, Sub-regulator
	*3 AT-49A AT-49C	Auto white/black Function, VF Character Generator, System Controller, Audio Level Detector
	SW-220	SAVE-STBY, Color Bars ON/OFF, DCC ON/OFF, Memory A/B/Preset SW
	SW-357B	Auto White/Black SW VTR Start/Stop SW Shutter ON/OFF Select
	VR-77	Master Black VR
	IF-298AP	26P Interface, Logic VF Marker Gen.
	CN-400	Connector PCB for IF-298

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
VIDEO	VDA-11P	CTDM and C-Modulator
	AFM-6P	Y-Modulator, AFM
	VP-24P	Video Playback, Head Select Pulse Generator
AUDIO	AU-97P	Audio REC/PB Processor
	TB-5	Terminal Board, Audio Confl PB
	FL-55P	Audio Head AMP, Relay Board for TB and A/T Head
SERVO	SV-97AP	Drum/Capstan Servo
SYSTEM CONTROL	SY-117CP	System Control
	KY-124	Function Key Board
TIME CODE	*1 TC-48AP TC-48BP	Time Code Generator, Audio Level Control, Audio Monitor AMP, SW and Indicator for Audio and TC
	VR-70	Volume
POWER	*1 PS-162 PS-162B	Power Distributor
	FE-4	Full Erase, Dew and End Sensor
SENSOR	LD-21	Loading Motor Driver and END Sensor
	SR-40	Mechanical Position Sensor

TION
tor
ad Select
essor
o Confi PB
lay Board
ad
o
or, Audio
o Monitor
or for
nd Sensor
er and END
n Sensor

SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
OTHERS	MB-317AP	Mother Board
	#2 SW-291 SW-291A	Back Tally
	FL-45	Relay Board for MB and TC
	FL-46	Relay Board for MB and TC
	FL-53	Relay Board for TB and SR
	FL-57	Relay Board for PS and TC
	HP-43	Headphone
	EX-148	Extension Board
SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
#4 VIEW-FINDER	VF-32	Drive and Video Amp for Viewfinder, Peaking Signal Generator
	LP-58	BATT/TALLY, VTR SAVE LED
	LP-40	REC LED
	LP-42	Front Tally LED
	VR-67	Contrast, Bright, Peaking, Audio Level(CH-1) VR
	SW-260A	Tally ON/OFF, Audio Level Indicator ON/OFF, Zebra/Marker ON/OFF SW
SYSTEM	CIRCUIT BOARD	CIRCUIT FUNCTION
#4 VIEW-FINDER	VF-50	Drive and Video Amp for Viewfinder, Peaking Signal Generator
	LP-64	REC LED
	LP-65	BATT/TALLY, VTR SAVE LED
	LP-66	Front Tally LED
	VR-149	Contrast, Bright, Peaking, Audio Level(CH-1) VR
	SW-562	Tally ON/OFF, Audio Level Indicator ON/OFF, Zebra/Marker ON/OFF SW
	CN-771	Connector for VF Cable

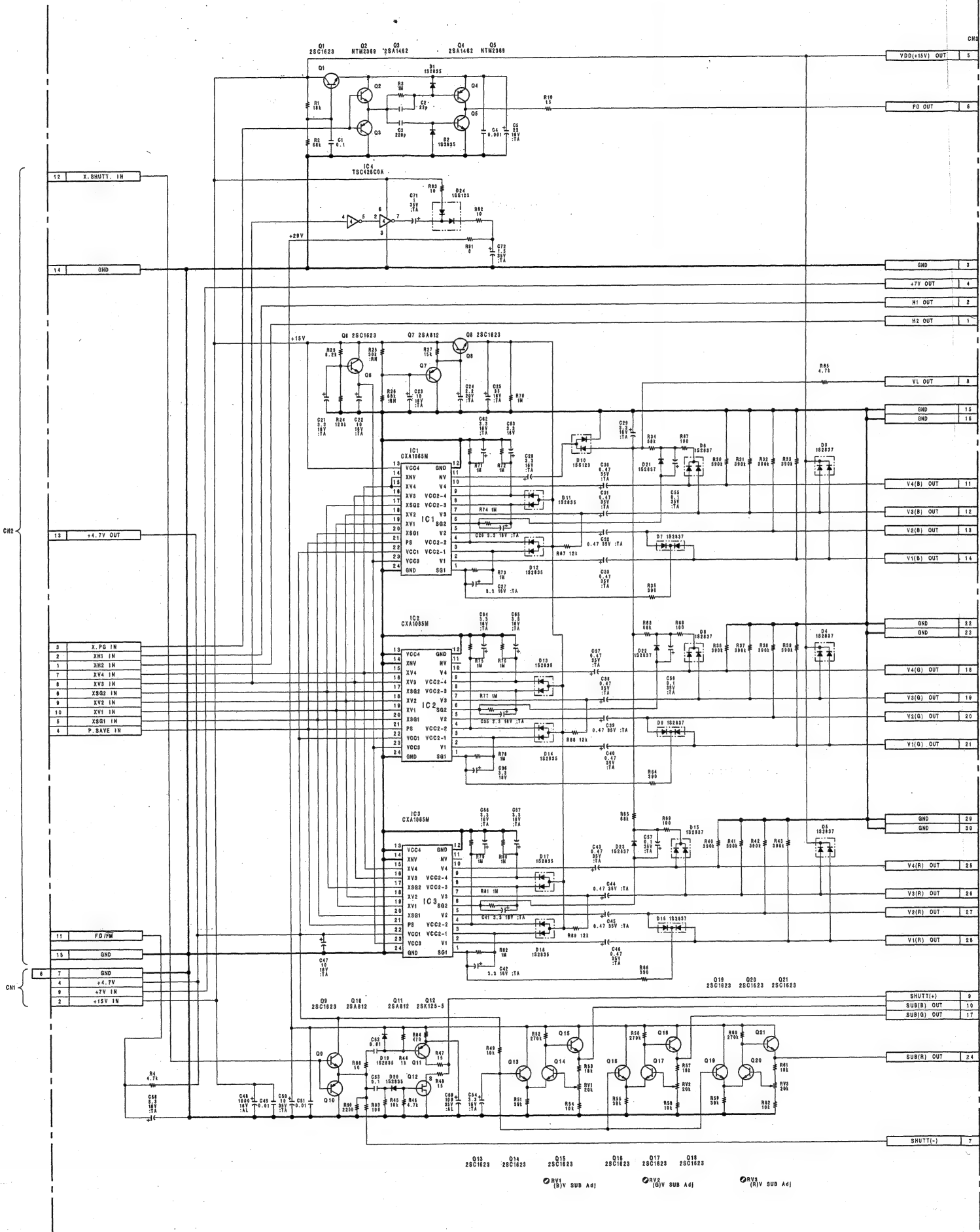
BOARD CHANGE INFORMATION

OLD NAME → NEW NAME	SERIAL NUMBER
#1 PS-162 → PS-162B TC-48AP → TC-48BP	42096 and higher
#2 SW-291 → SW-291A	42131 and higher
#3 TG-57P → TG-162P, 163 and 121 PA-101 → PA-155 VA-83 → VA-168 AT-49A → AT-49C	44001 and higher
#4 VIEWFINDER VF-32 → VF-50 LP-58 → LP-64 LP-40 → LP-65 LP-42 → LP-66 VR-67 → VR-149 SW-260A → SW-562 CN-771(added)	

CCD-BLOCK

DR-84;CCD DRIVE

PA-101;CCD PREAMP(S/N;41954 through 43999)

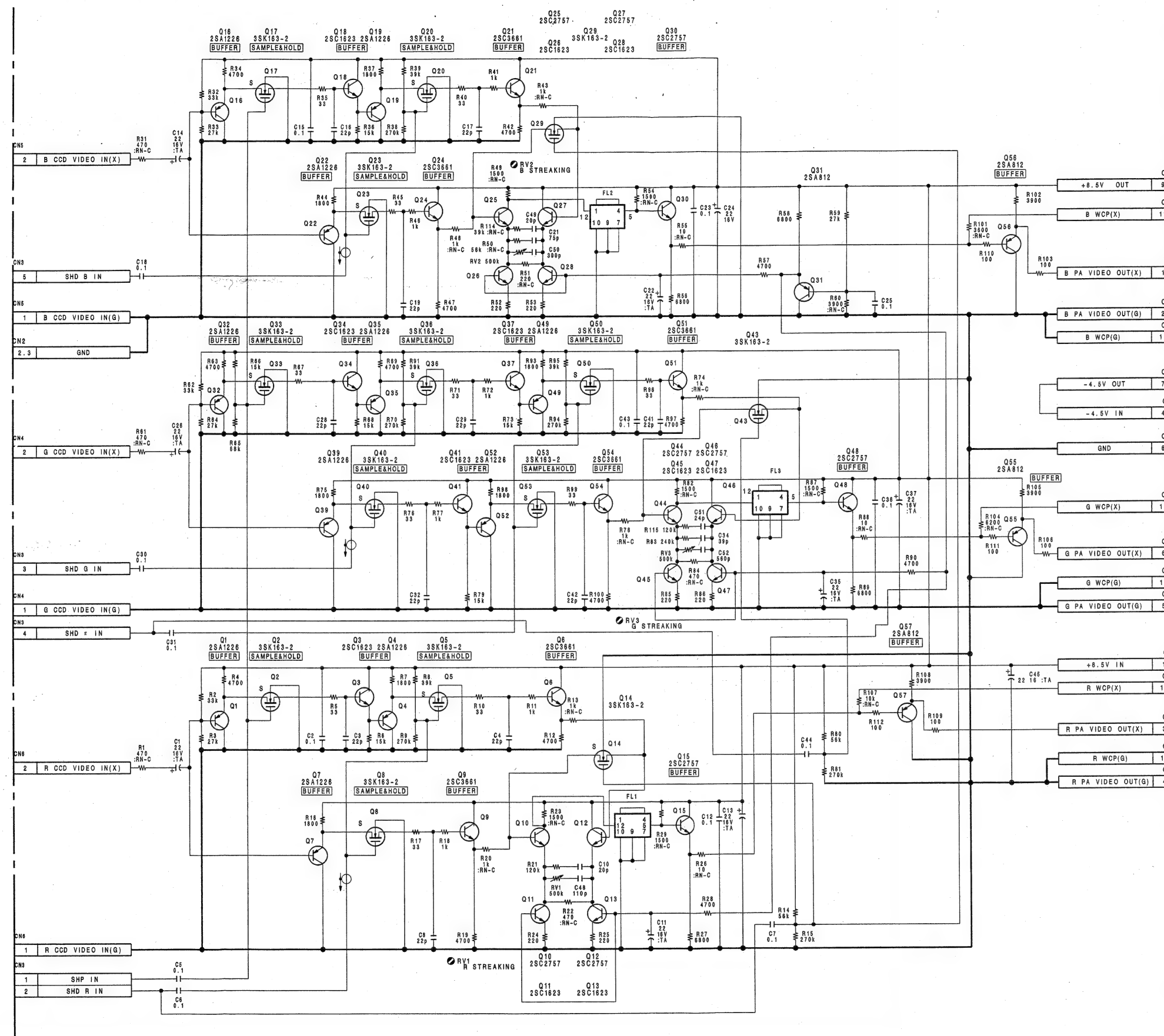


DR-84 BOARD

1-629-763-14

BVW-300AP(EK)

S/N; 41954 through 43999



11-7(a)

J

K

L

M

N

O

PA-101 BOARD

1-630-381-12
BVW-300AP(EK)

11-8(a)

PA-155

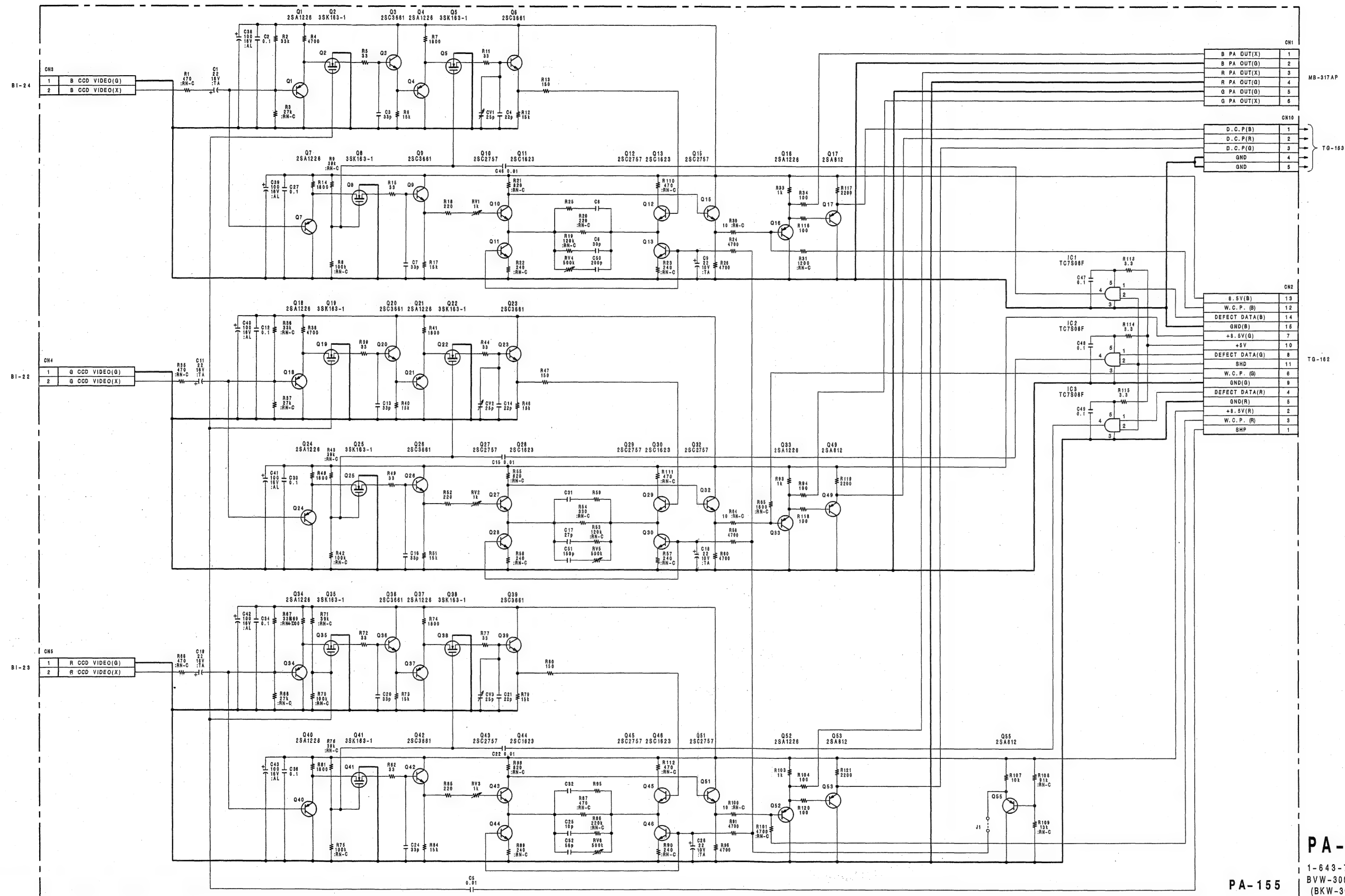
CCD BLOCK

CCD BLOCK

PA-155

PA-155; CCD PREAMP

S/N: 44001 and higher



11-7(b)

11-8(b)

A

B

C

D

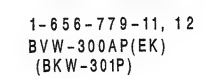
E

F

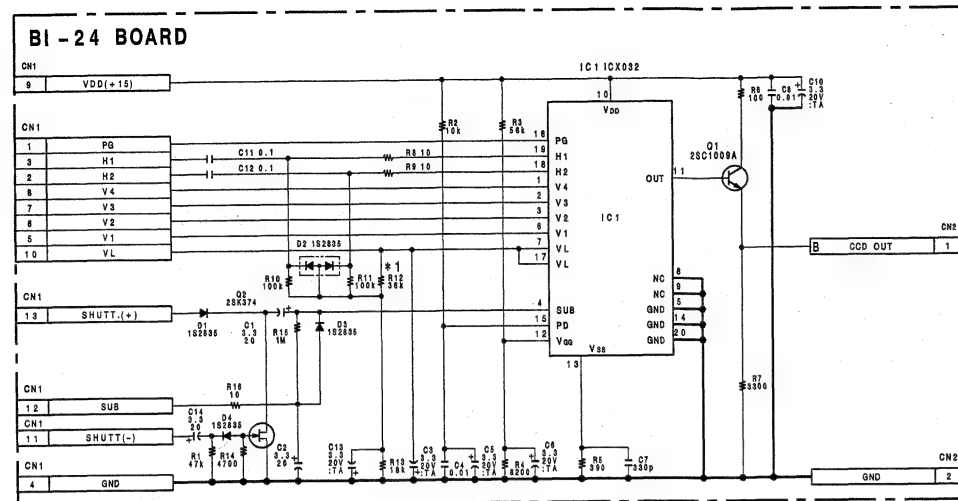
G

H

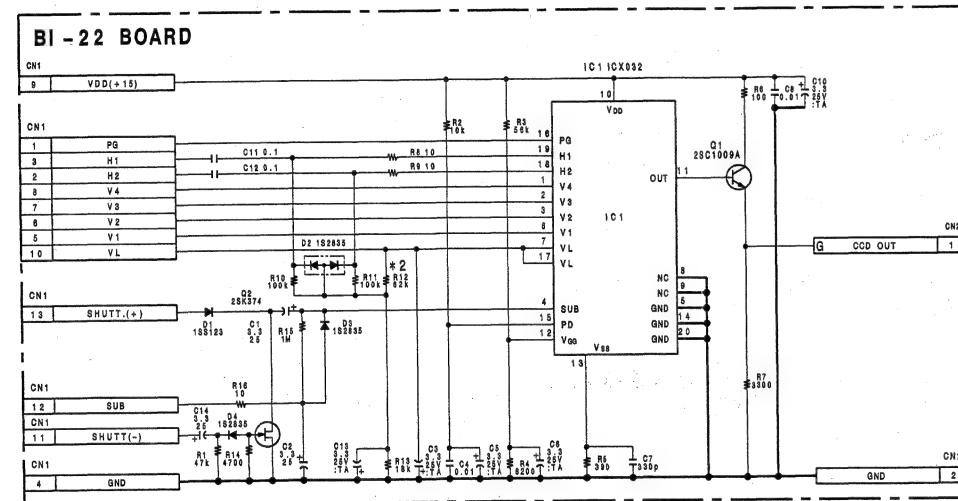
S / N; 44001 and higher



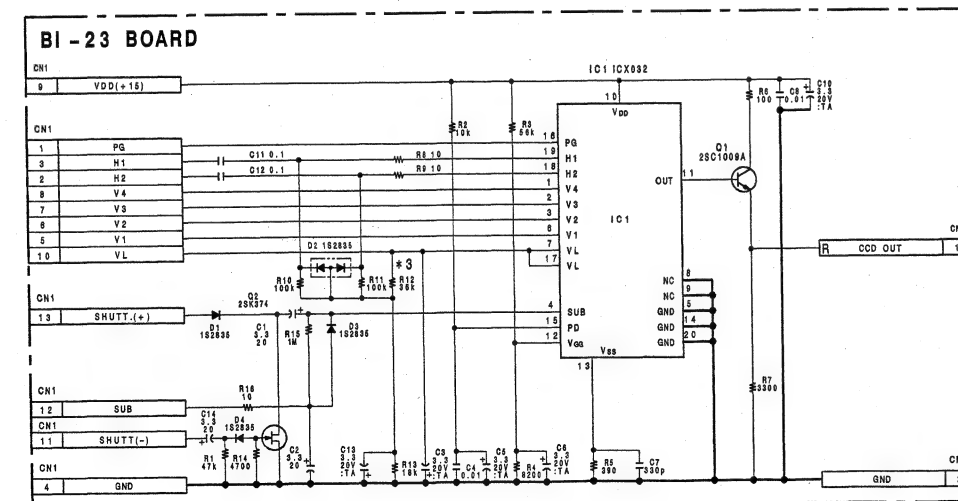
BI-22, BI-23, BI-24; CCD MOUNT



MARK	CHANGE INFORMATION	SERIAL NO.
*1	R12 100k → 38k	42131-



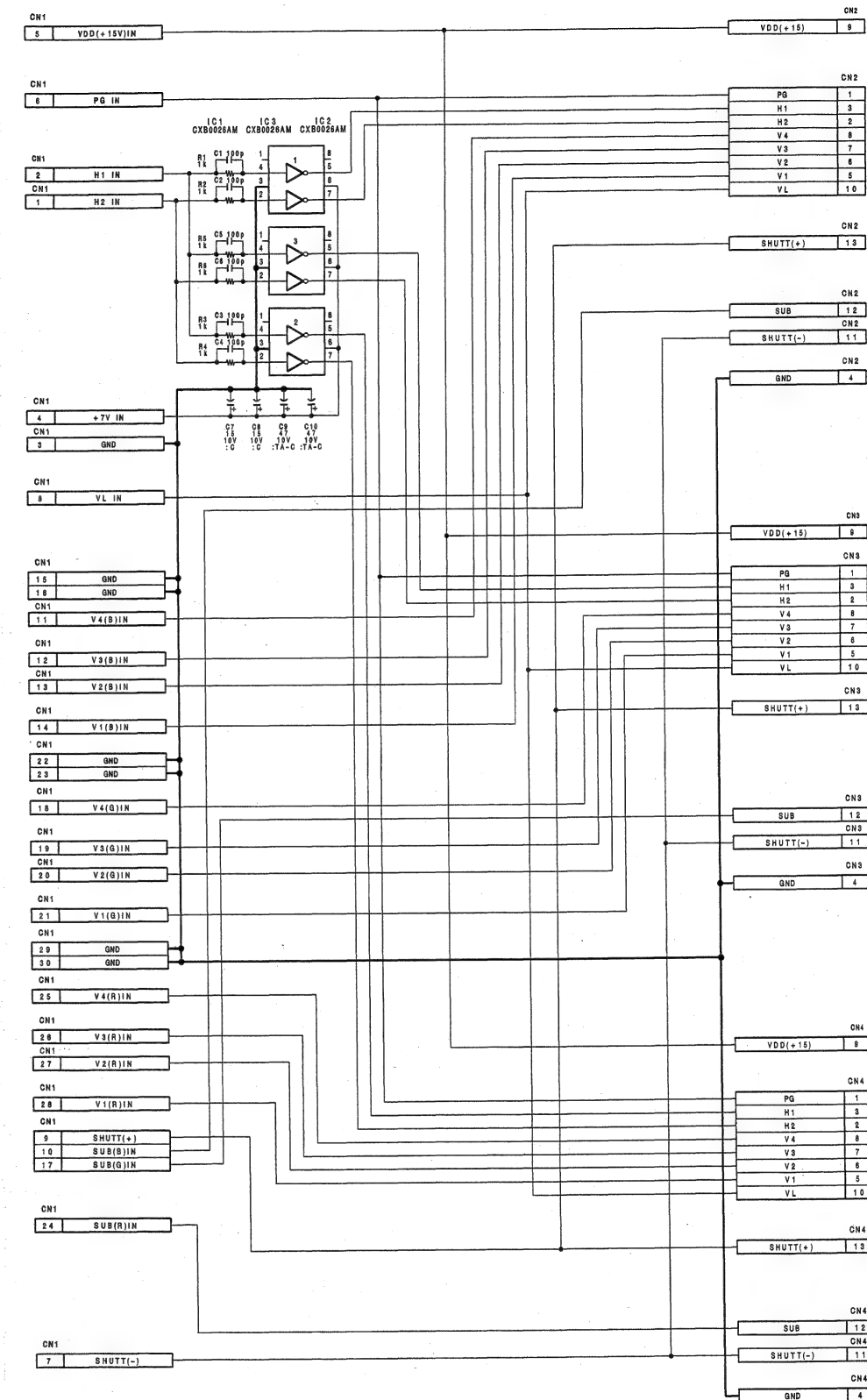
MARK	CHANGE INFORMATION	SERIAL NO.
*2	R12 100k → 82k	42131-



MARK	CHANGE INFORMATION	SERIAL NO.
*3	R12 100k → 38k	42131-

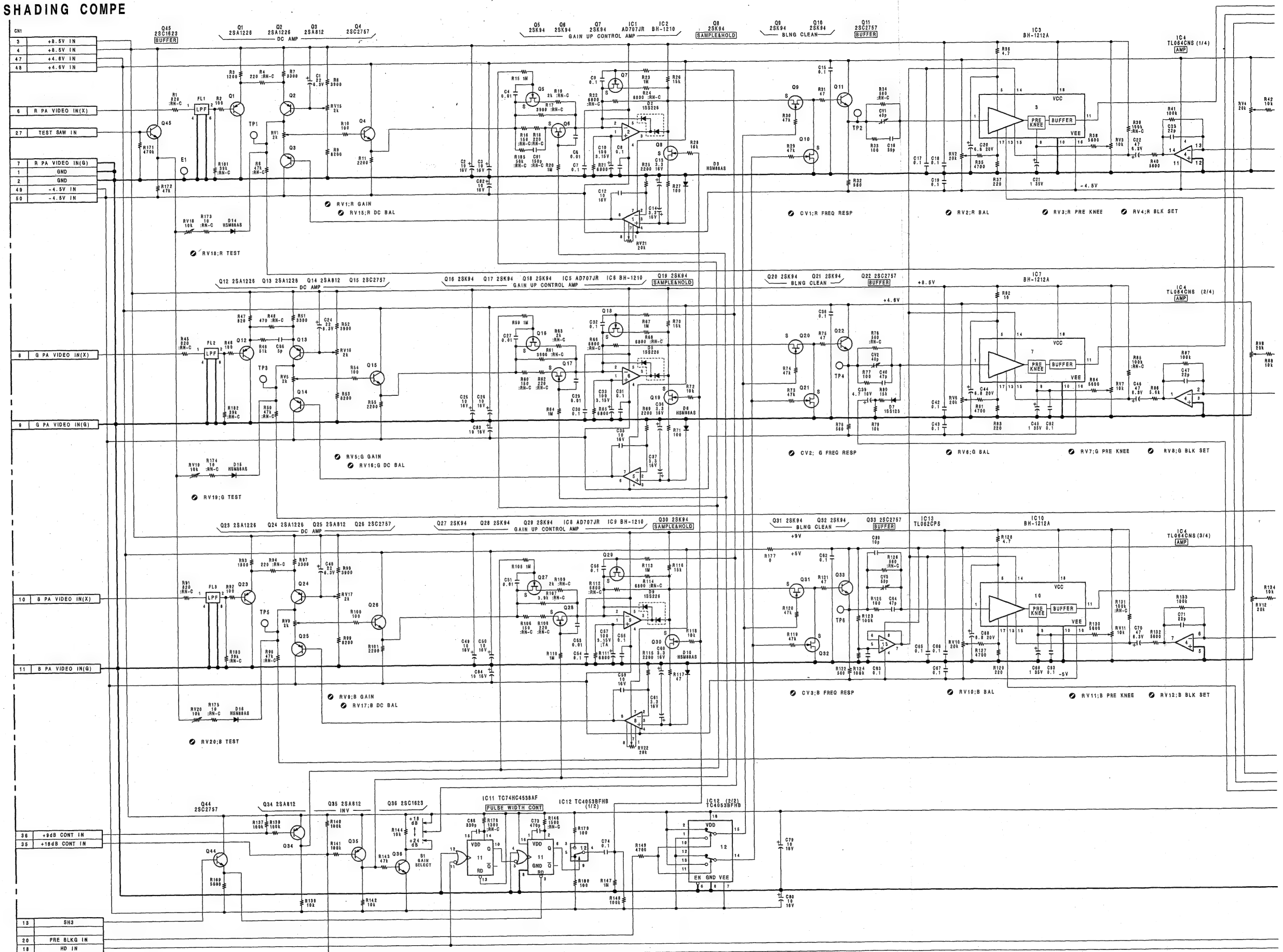
BI-22 BOARD
1-626-740-14
BI-23 BOARD
1-626-741-13
BI-24 BOARD
1-626-742-13
BVW-300AP(EK)

CN-273; CONNECTOR



CN-273 BOARD
1-626-739-12
BVW-300AP(EK)

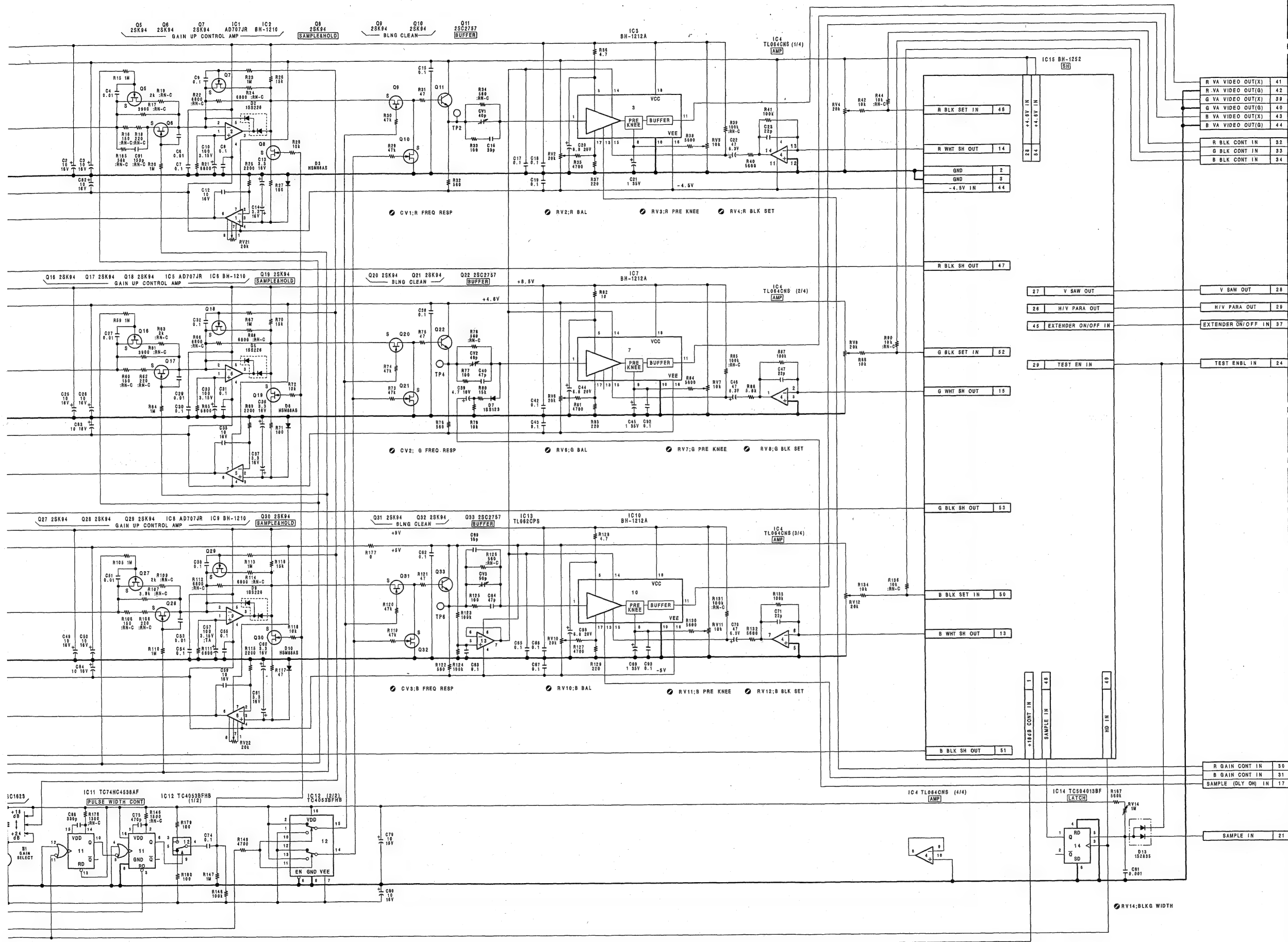
S / N; 41954 through 43999



11-17 (a)

H.

VA-83 VA-83



VA-83 BOARD
1-629-761-14
BVW-300AP(EK)

11-17(a)

11-18(a)

E

F

G

H

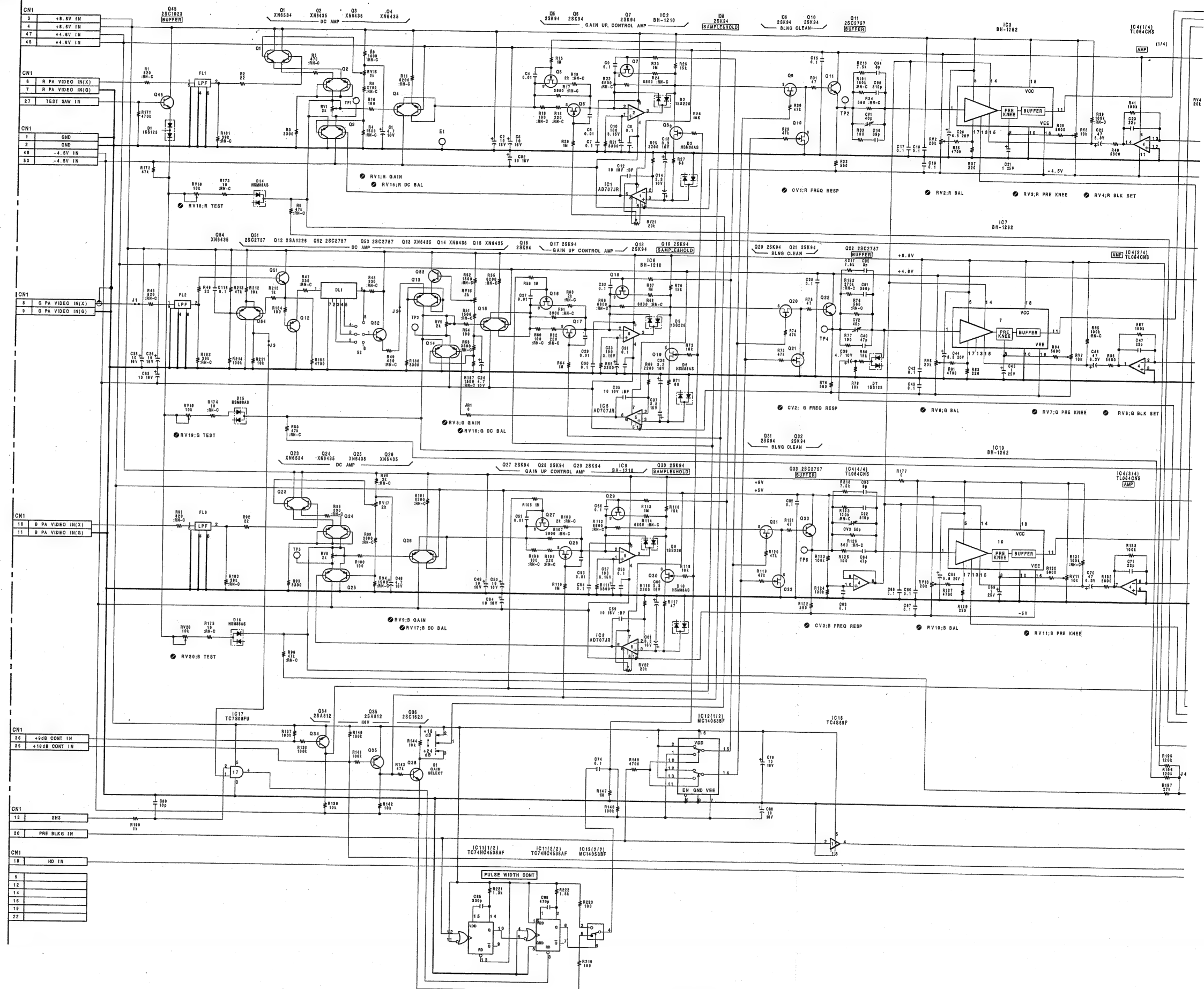
I

J

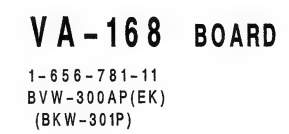
K

L

S/N; 44001 and higher



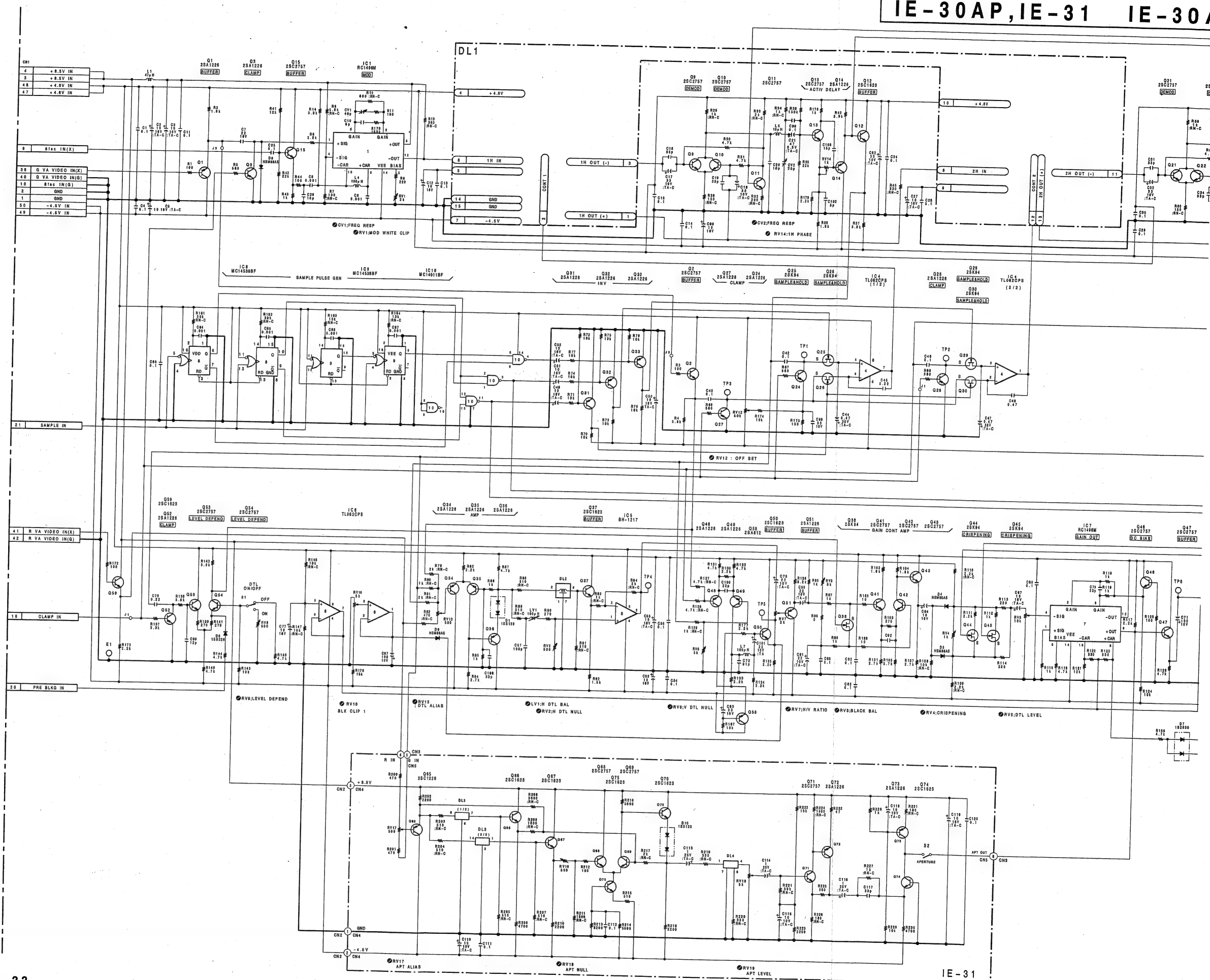
11-17 (b)



11-18(b)

L

IE-30AP; IMAGE ENHANCER
IE-31; APERTURE

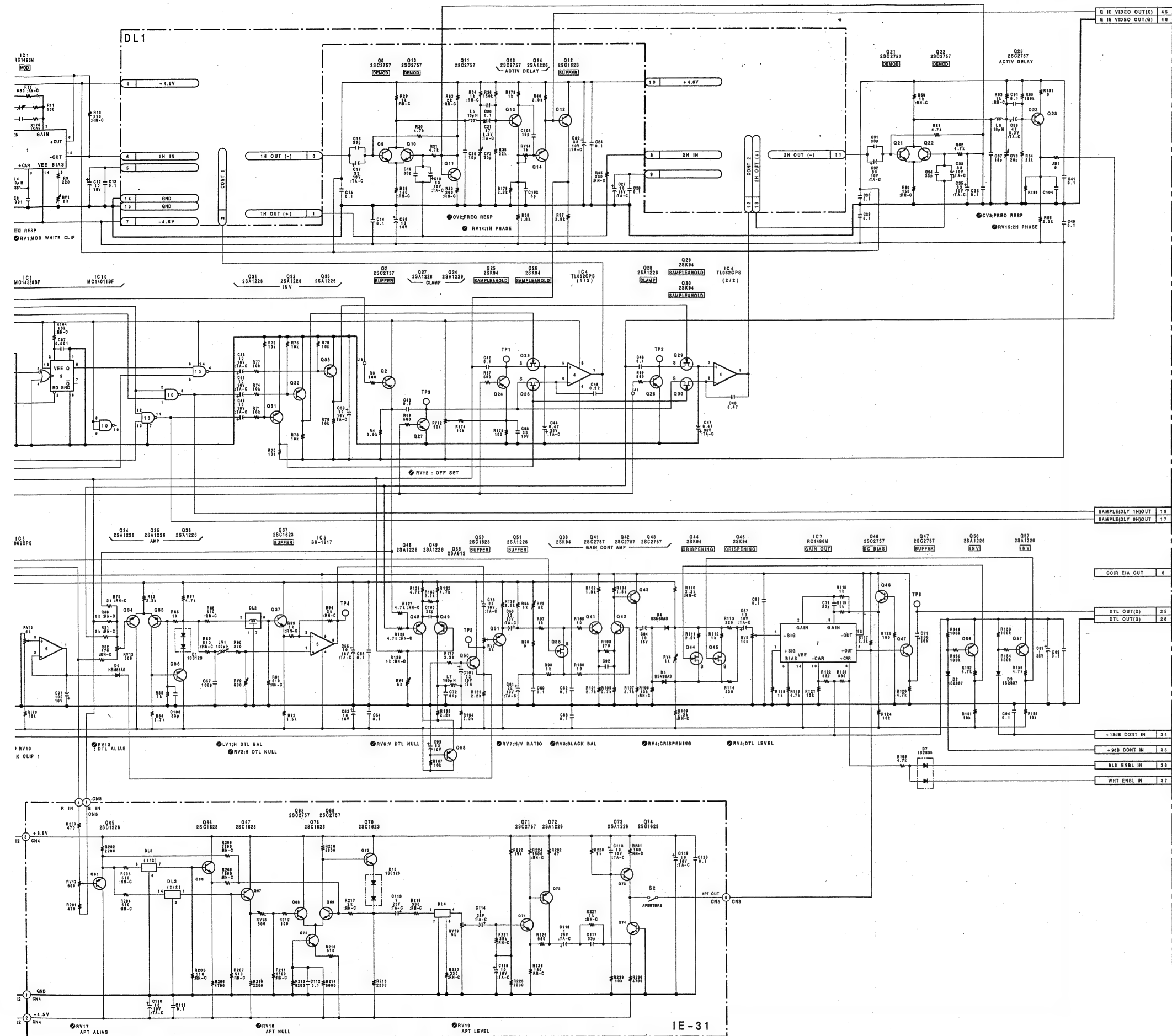


11-22

11-23

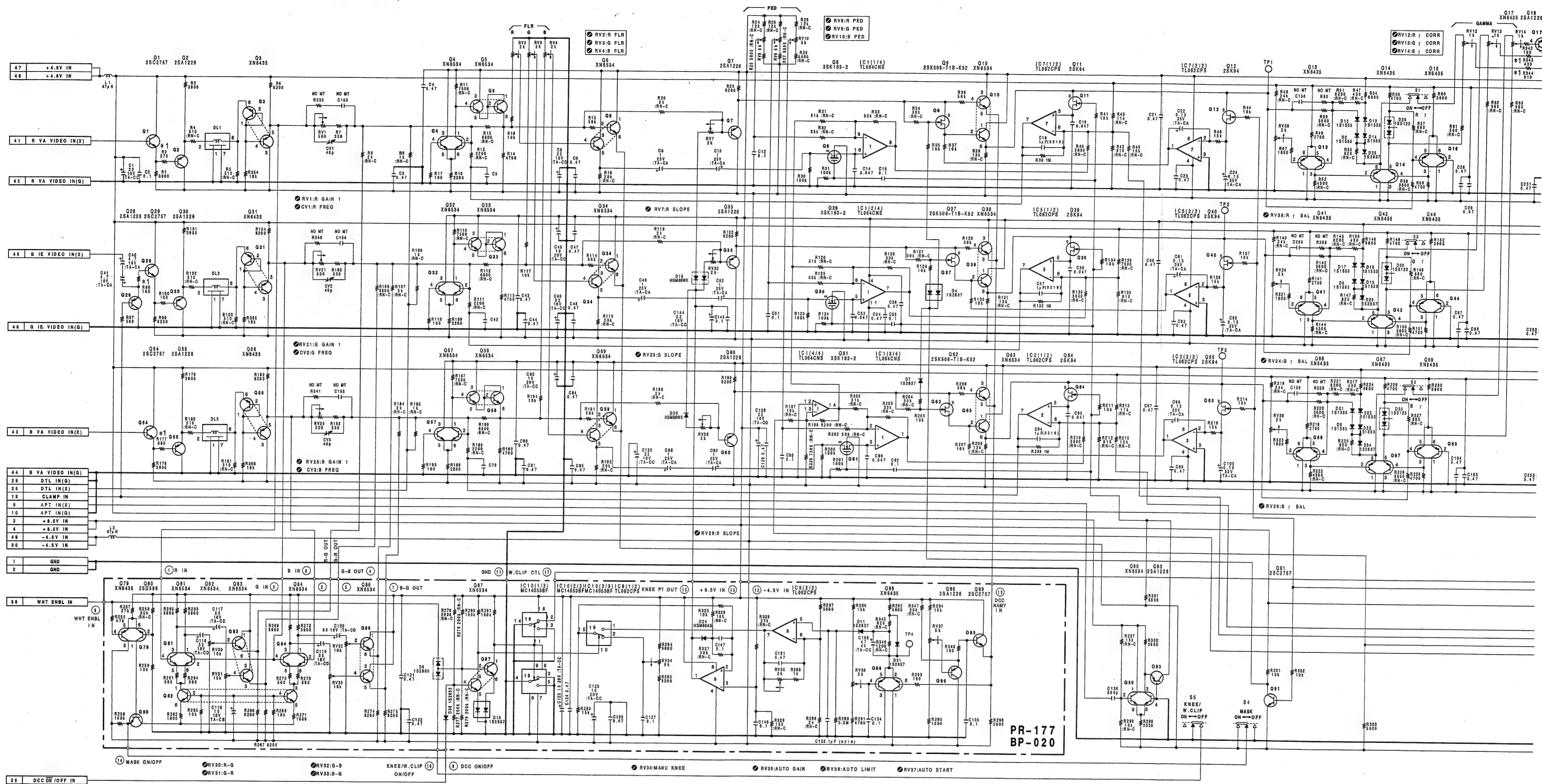
IE-31

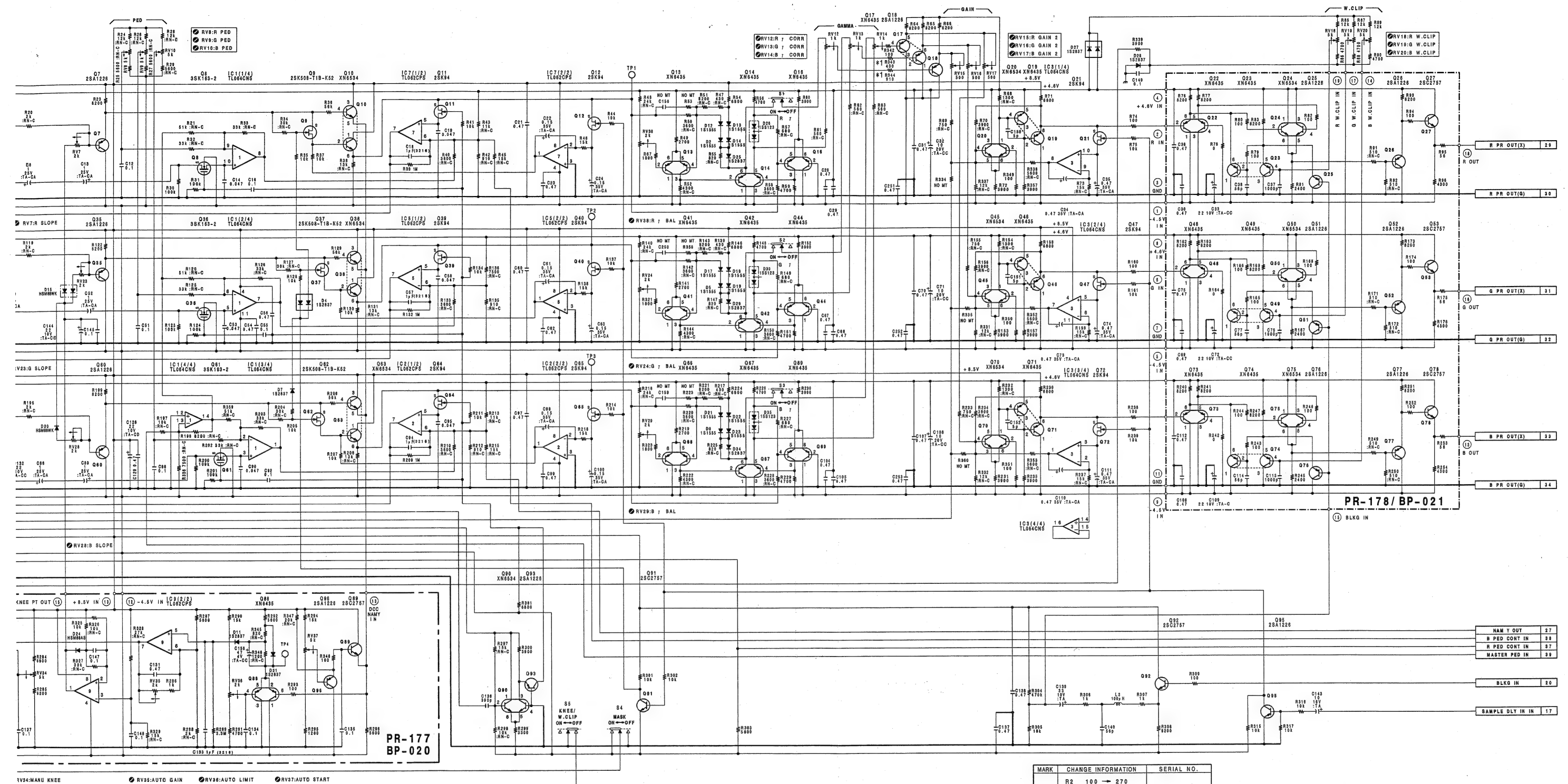
IE-30AP, IE-31 IE-30AP, IE-31



IE-30AP BOARD
1-634-946-12
IE-31 BOARD
1-636-346-11
BVW-300AP(EK)

PR-176,PR-177/BP-020,PR-178/BP-021; GAMMA, MASKING, KNEE, SLOPE,
W CUP, DCC





PR-176 BOARD

1-643-715-11,12

PR-177 BOARD BP-020

1-643-701-11

PR-178 BOARD BP-021

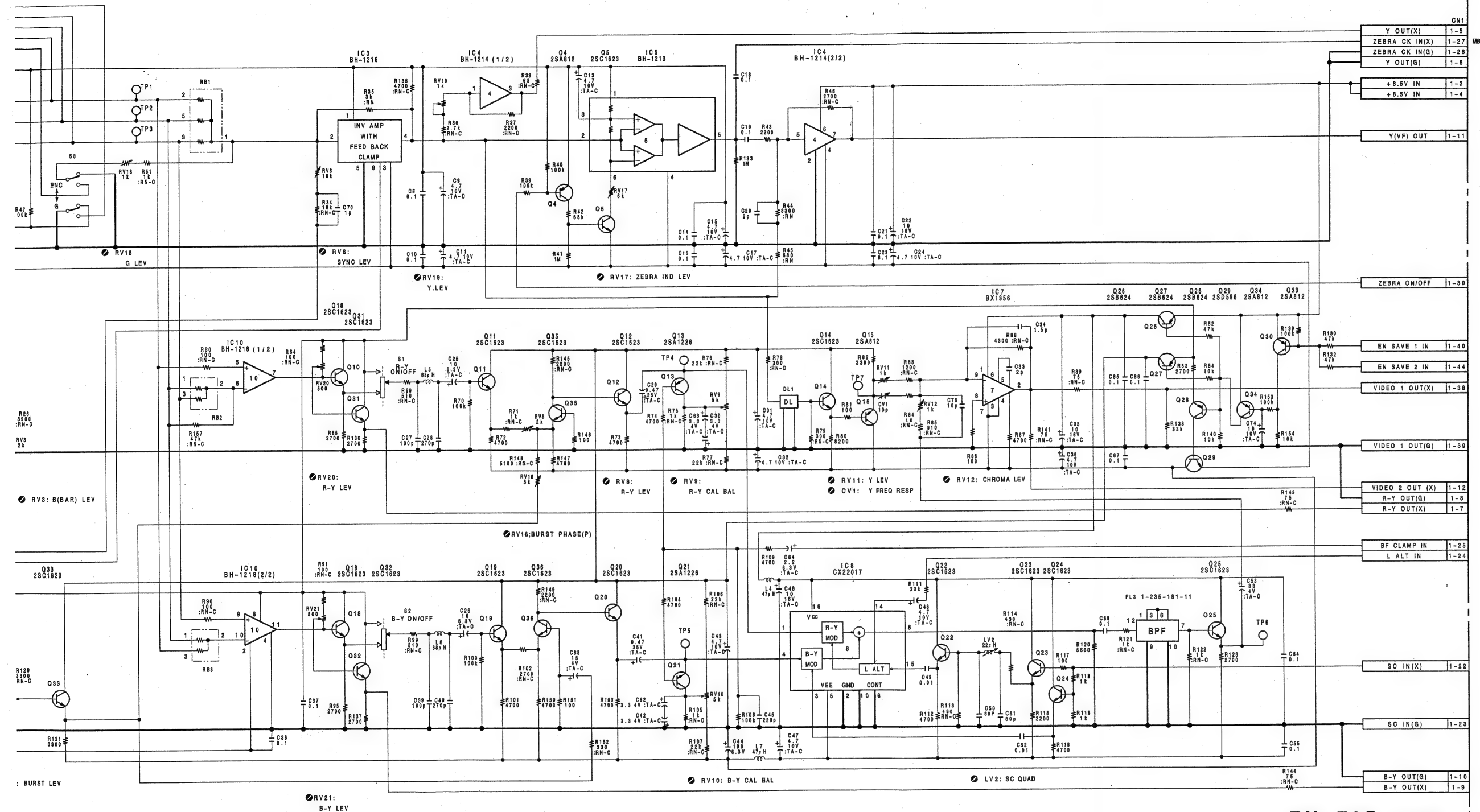
1-643-702-11

BVW-300AP (E K)

5

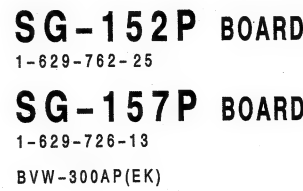


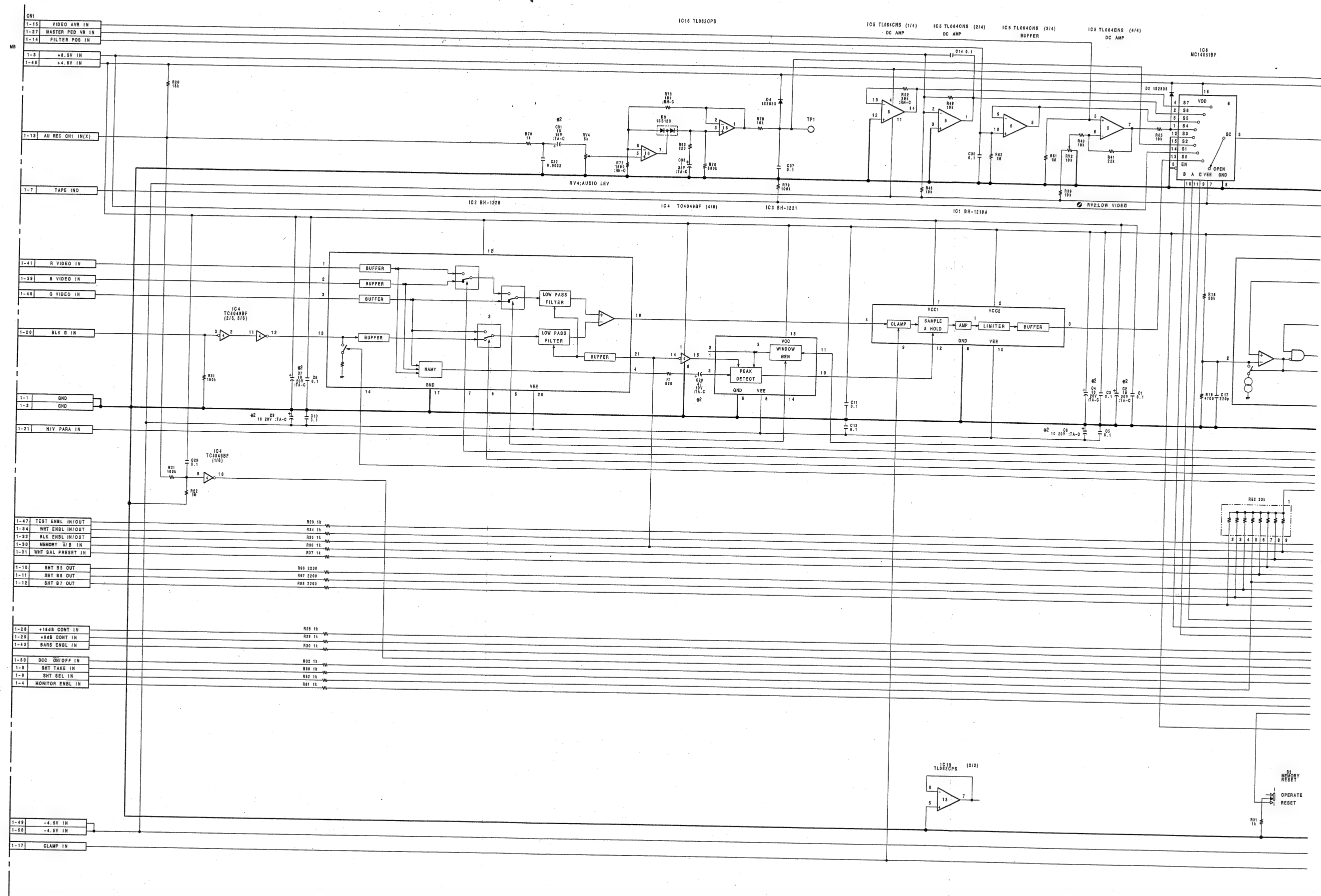
EN-79P EN-79P

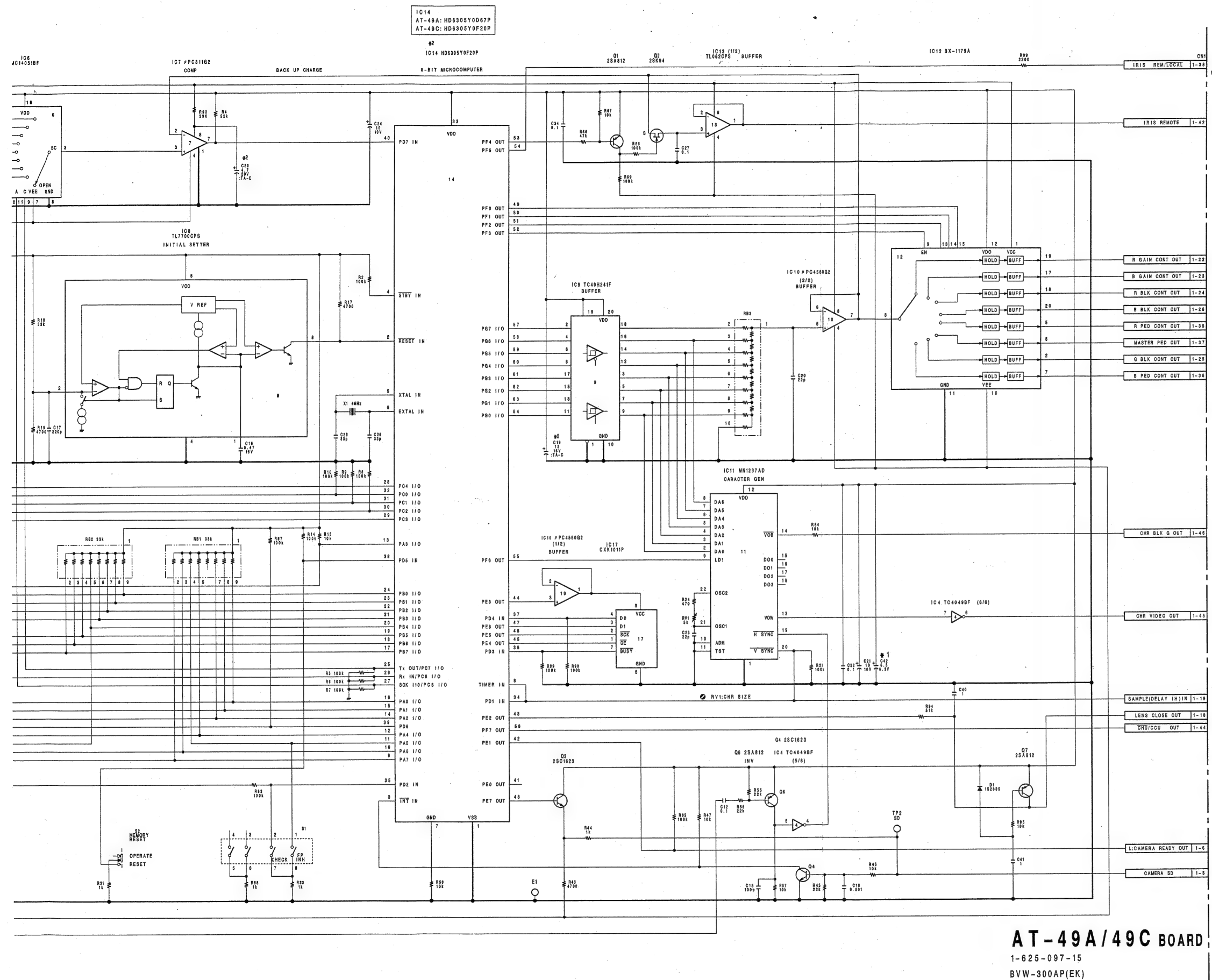


EN-79P BOARD
1-629-727-14
BVW-300AP(EK)

SG-152P, SG-157P





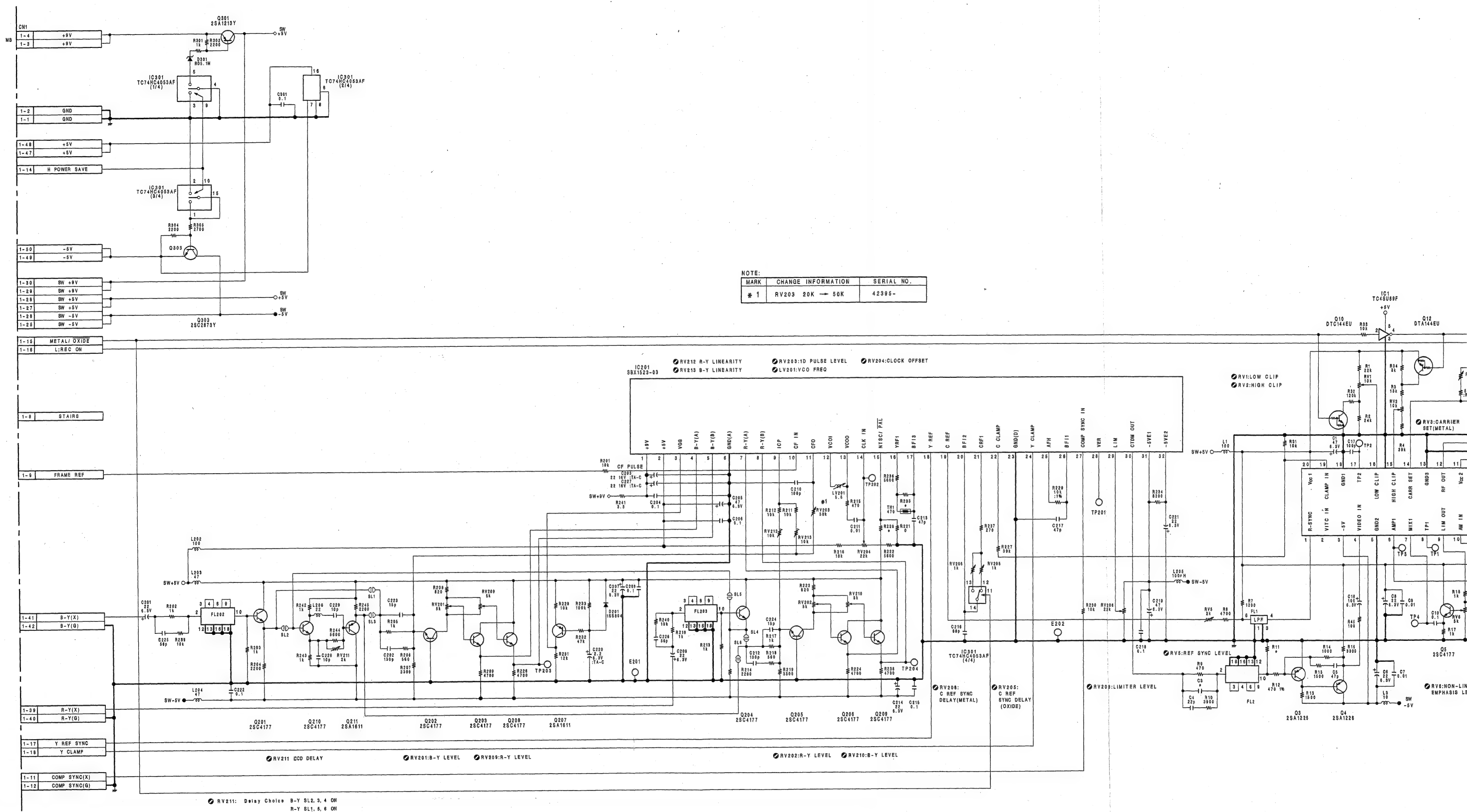


MARK	CHANGE INFORMATION	SERIAL NO.
#1	C42 6.8 6.3V ADDED	42131-
#2	IC14 HD6305Y0D87P HD6305Y0F20P C2, 4, 6, 7, 9 10V :TA-C :TA-C C19, 31 15V :TA-C :TA-C C28 4.7 6.3V :TA-C :TA-C C39 4.7 10V :TA-C :TA-C	44001-

AT-49A/49C BOARD
1-625-097-15
BVW-300AP(EK)

VDA-11P VDA-11P

VDA-11P;CTDM AND C-MODULATOR S/N;41954 through 44160



11-55(a)

11-56(a)

A

B

C

D

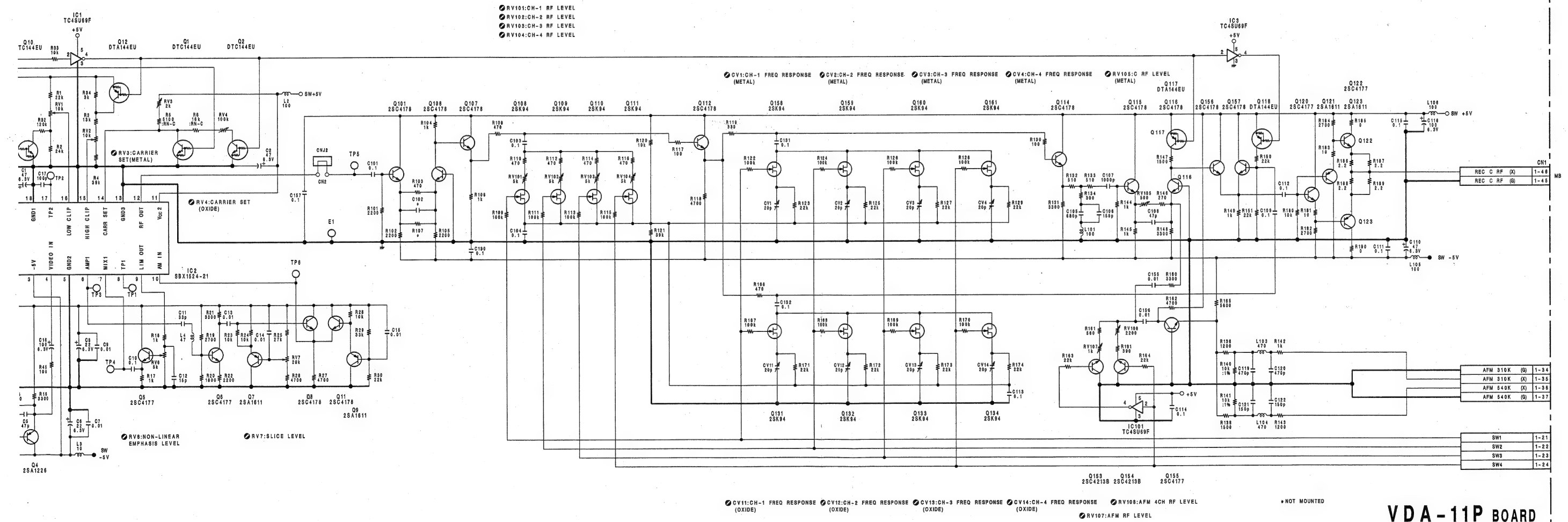
E

F

G

H

VDA-11P VDA-11P



VDA-11P BOARD

1-625-541-16
BVW-300AP(EK)

11-57(a)

11-58(a)

1

J

K

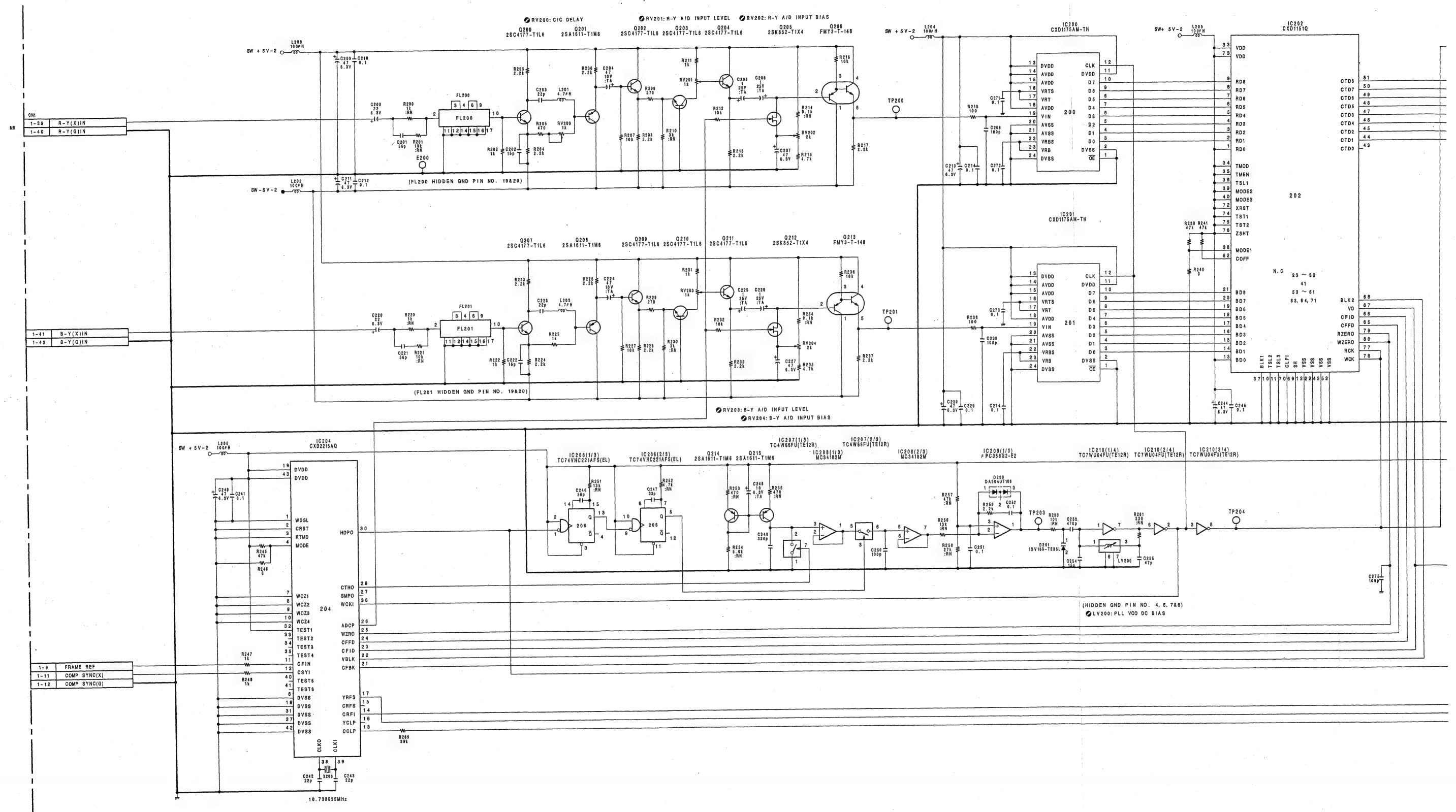
L

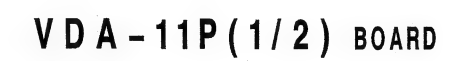
M

1

•

VDA-11P(1/2);CTDM AND C-MODULATOR S/N;44161 and higher





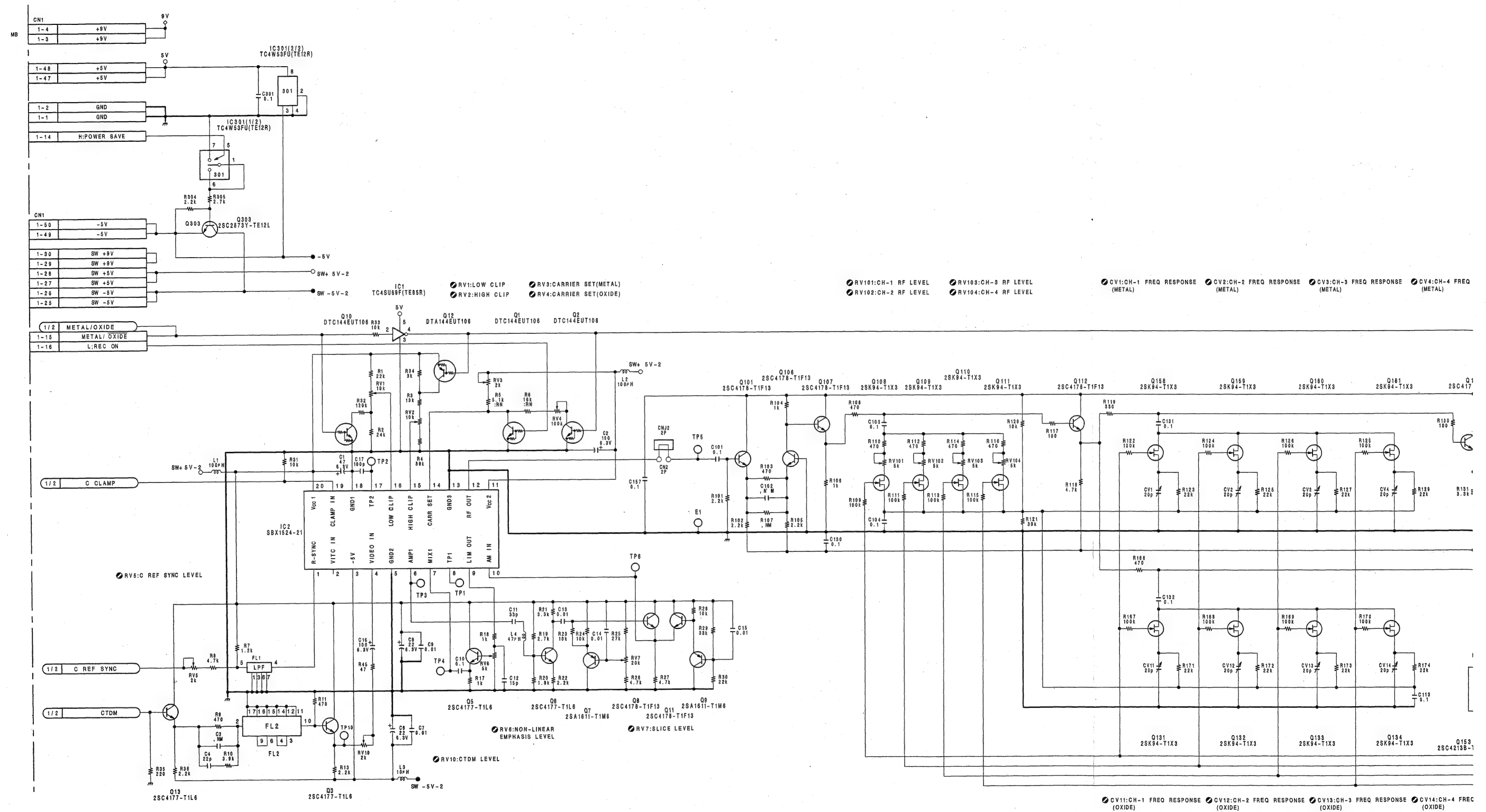
BVW-300AP(EK)

BVW-300AP(EK)

11-57(b)

L

VDA-11P(2/2);CTDM AND C-MODULATOR S/N;44161 and higher



A

B

C

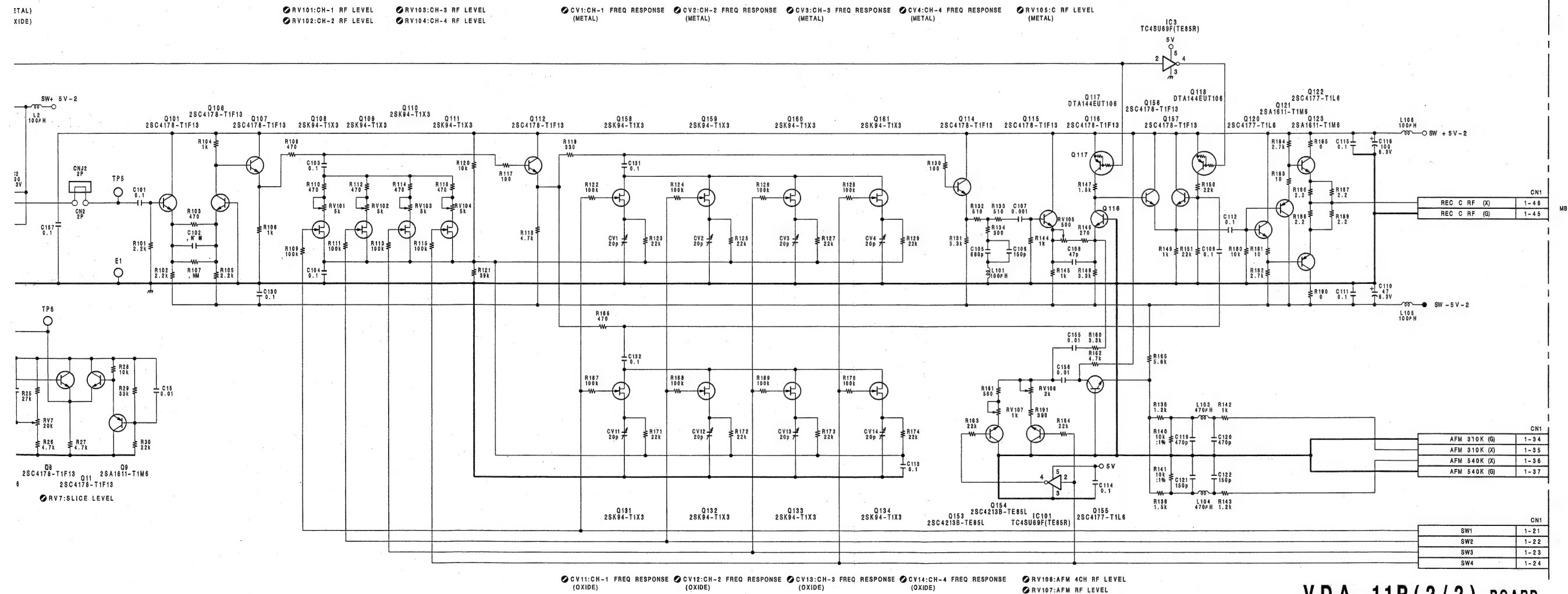
D

E

F

G

H



11-58(b)

11-58(b)

E

F

G

H

I

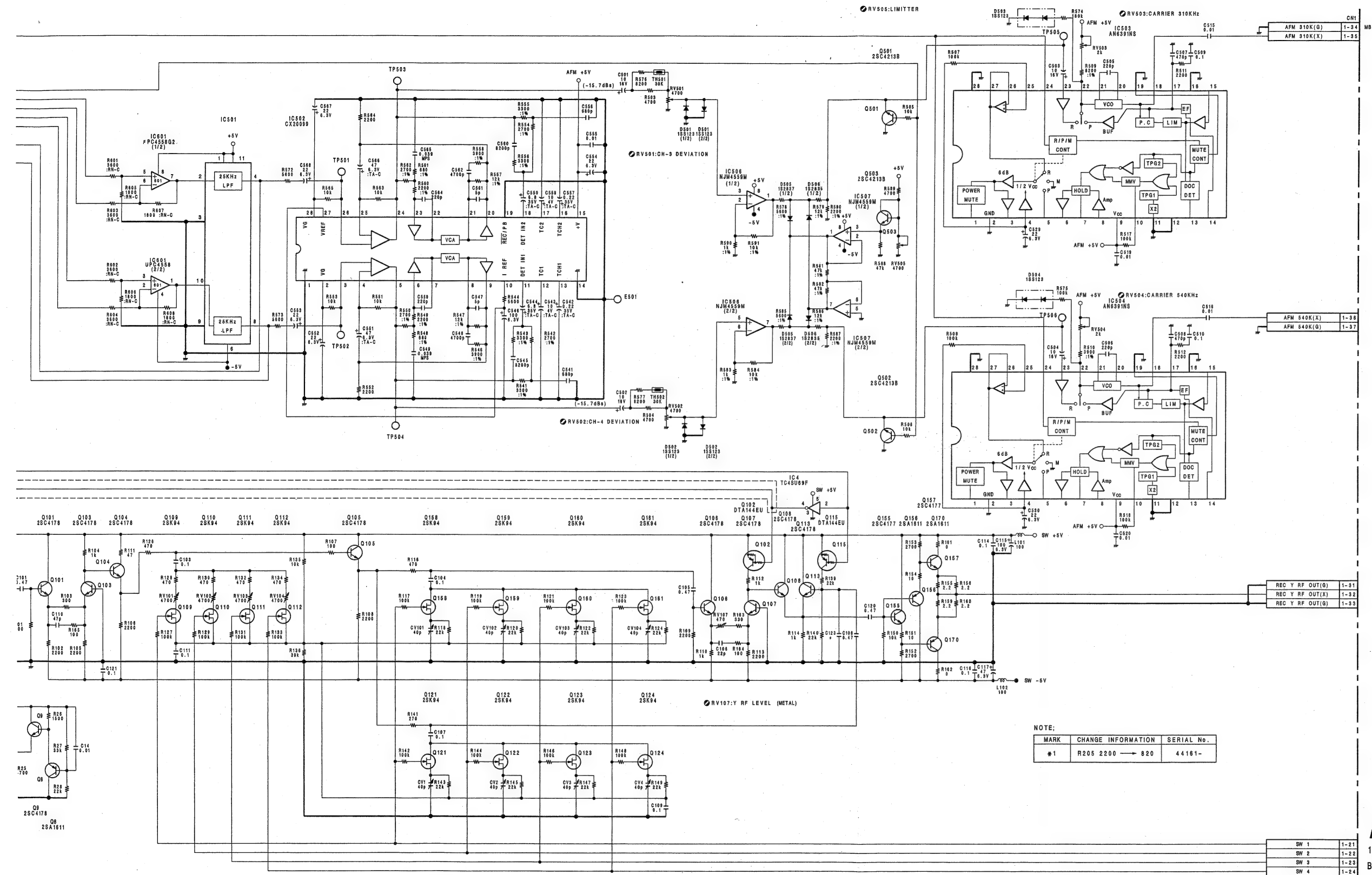
J

K

L

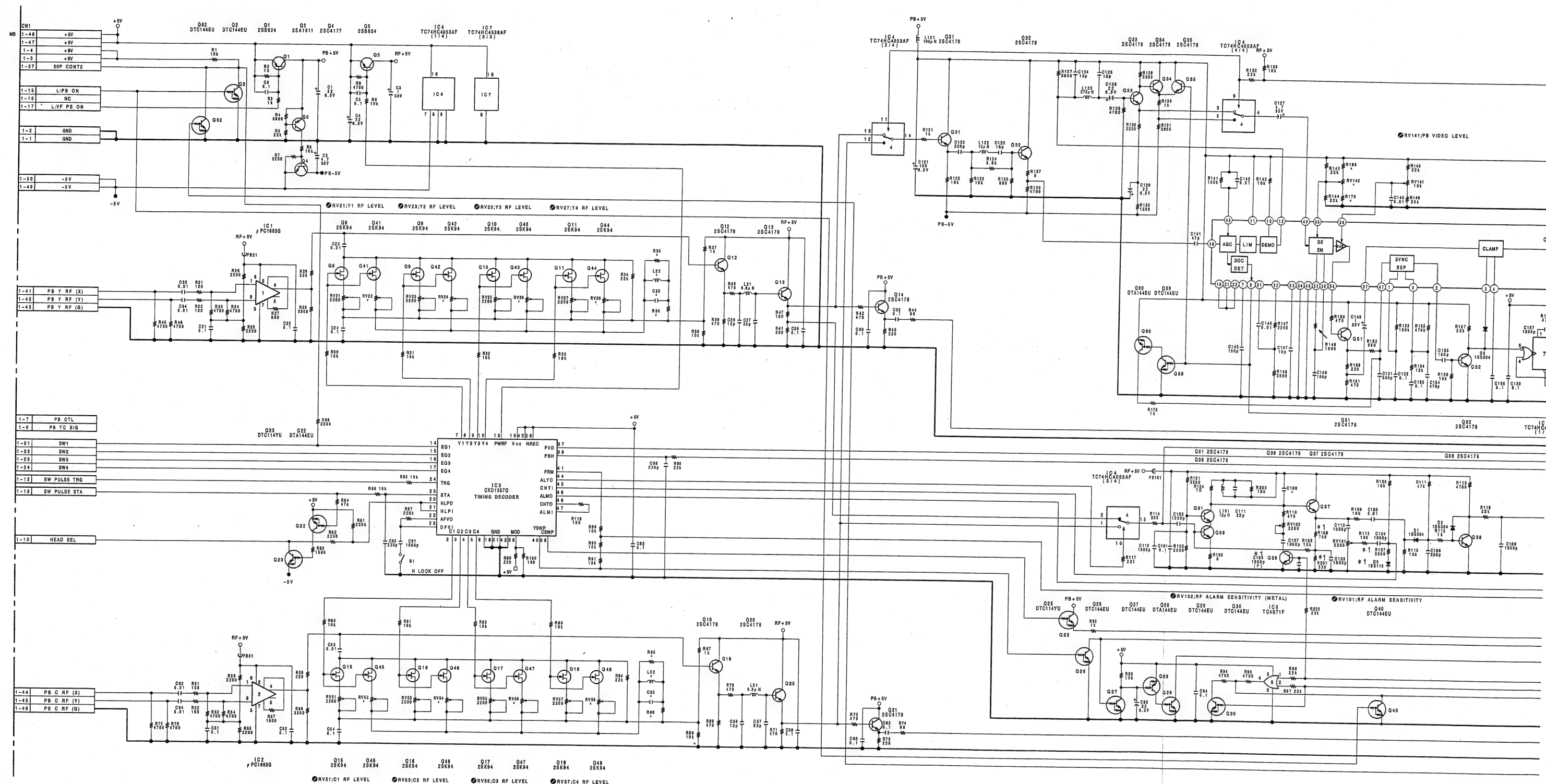
2





AFM-6P BOARD
1-625-542-17
BVW-300AP(EK)

VP-24P;VIDEO PB



MARK	CHANGE	INFORM
* 1	R108 1500	→
	R107 4700	→
	R201 880	→
	D5 15S119	→
	C164 1000p	→

A

B

C

D

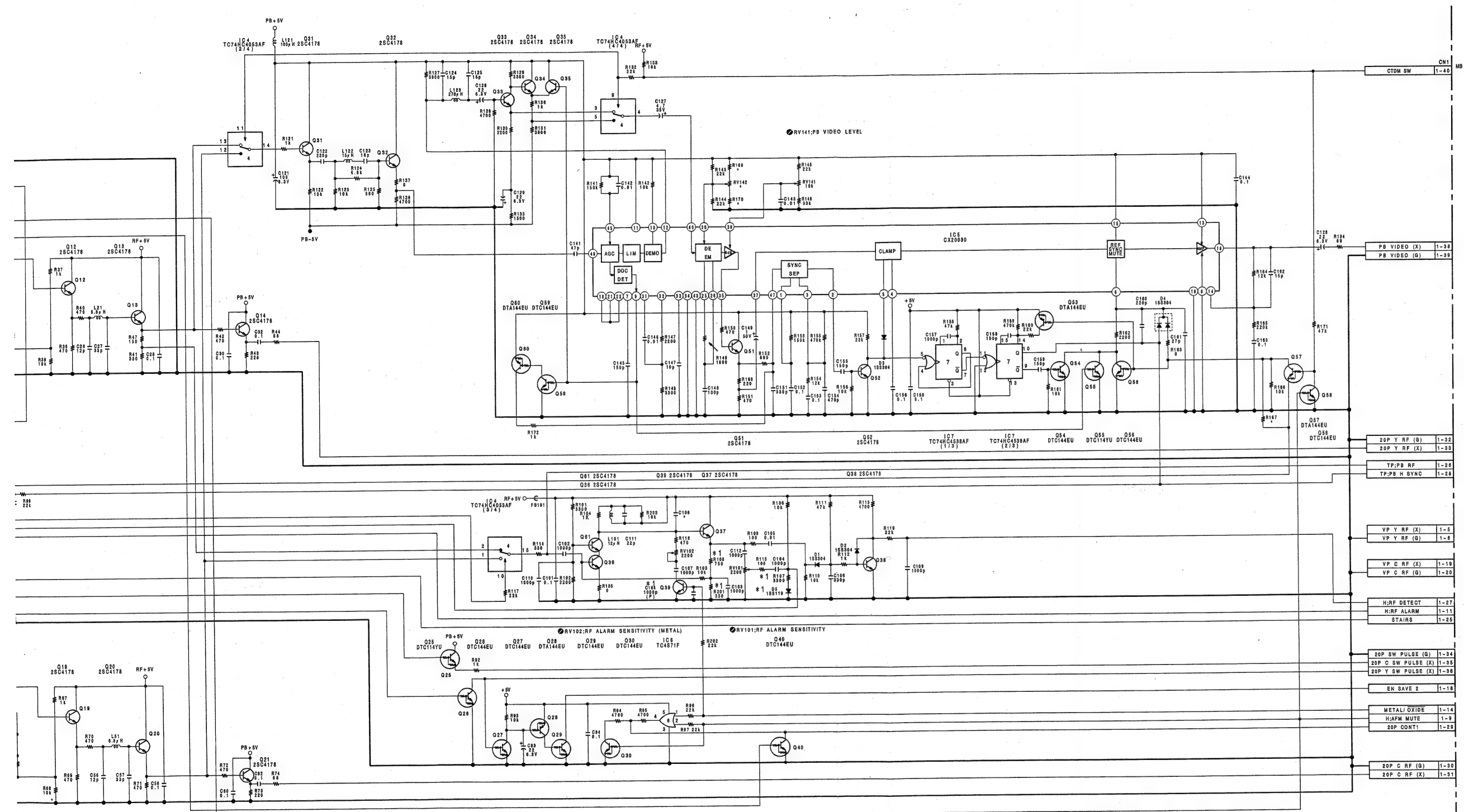
E

11-69

F

G

H



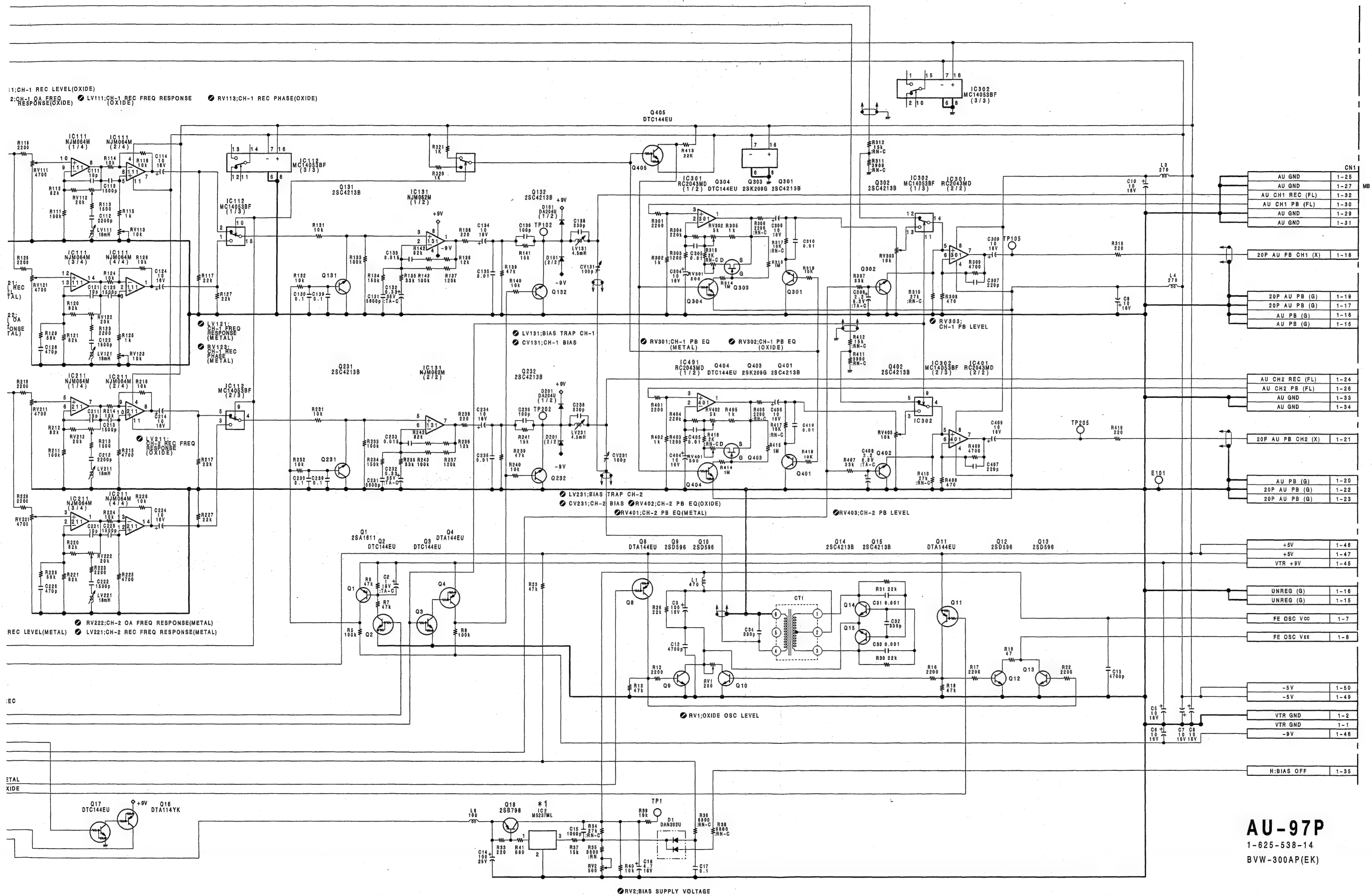
VP-24P BOARD
 1-625-543-14
 BVW-300AP(EK)

MARK	CHANGE INFORMATION	SERIAL NO.
*1	R108 1500 → 750 R107 4700 → 3300 R201 680 → 330 D5 1S5119 } ADDED C164 1000p	42131-

* NOT MOUNTED

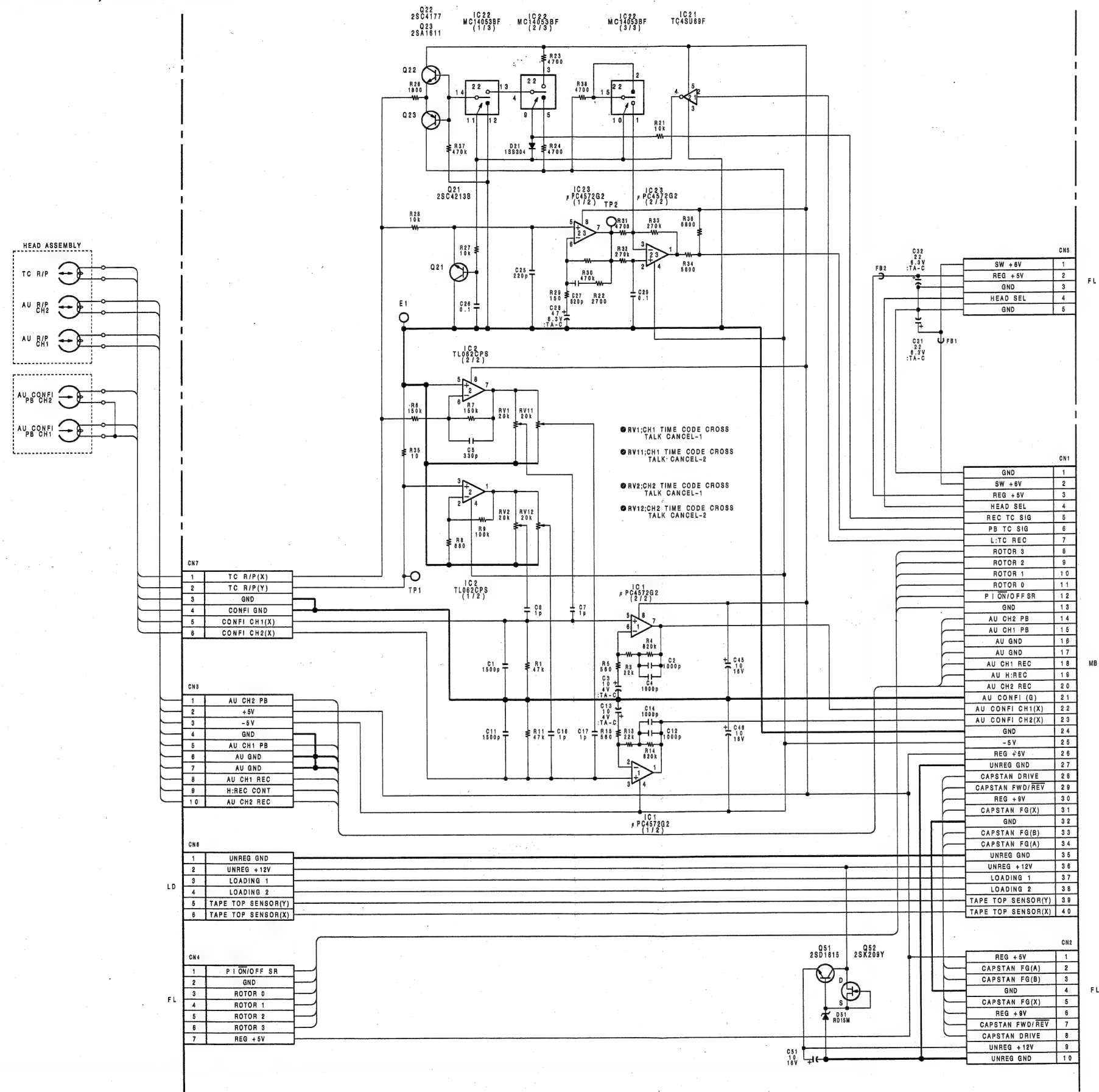
11-75

AU-97P AU-97P

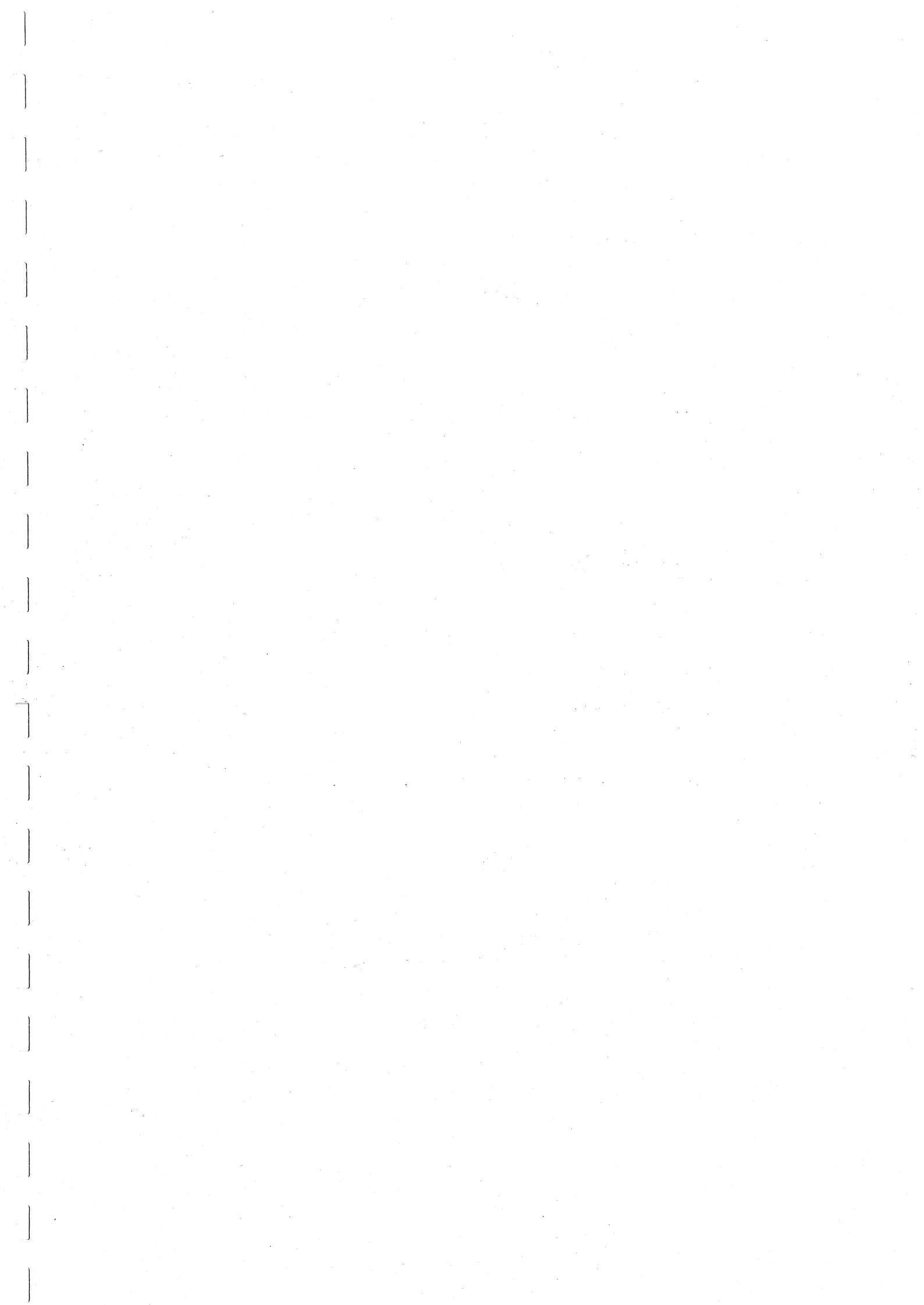


AU-97P
1-625-538-14
BVW-300AP(EK)

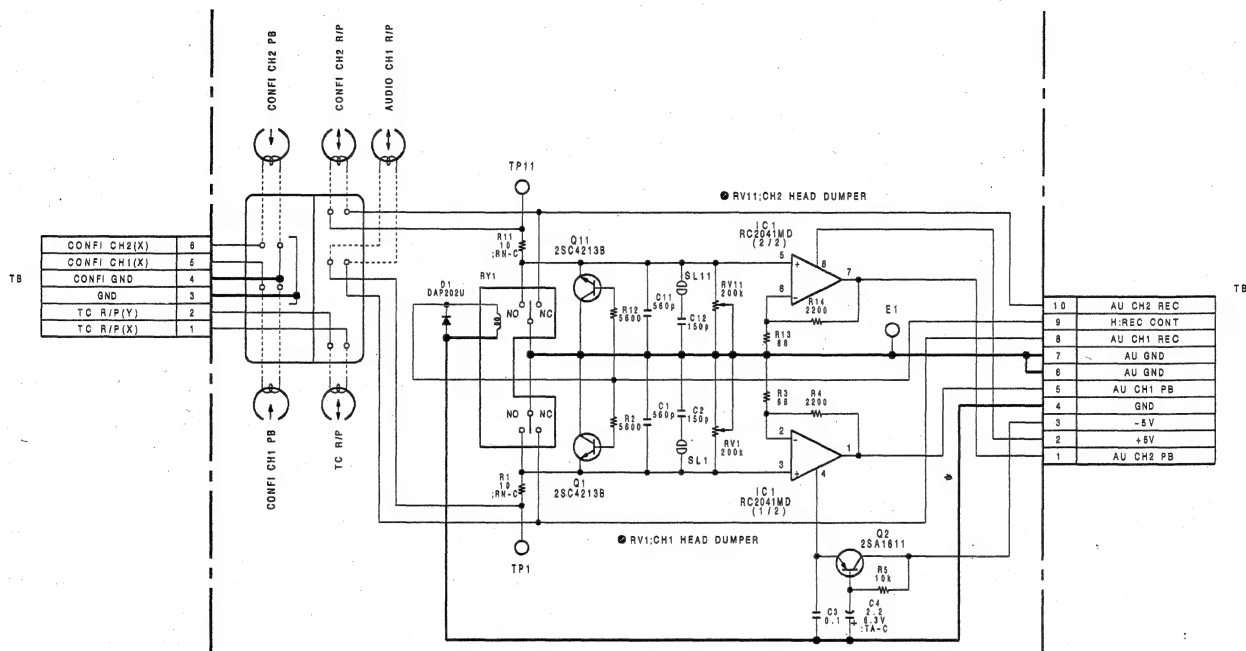
TB-5; TERMINAL BOARD, AUDIO CONF



TB-5 BOARD
1-625-552-14
BVW-300AP(EK)



FL-55P;AUDIO HEAD AMP, RELAY BOARD

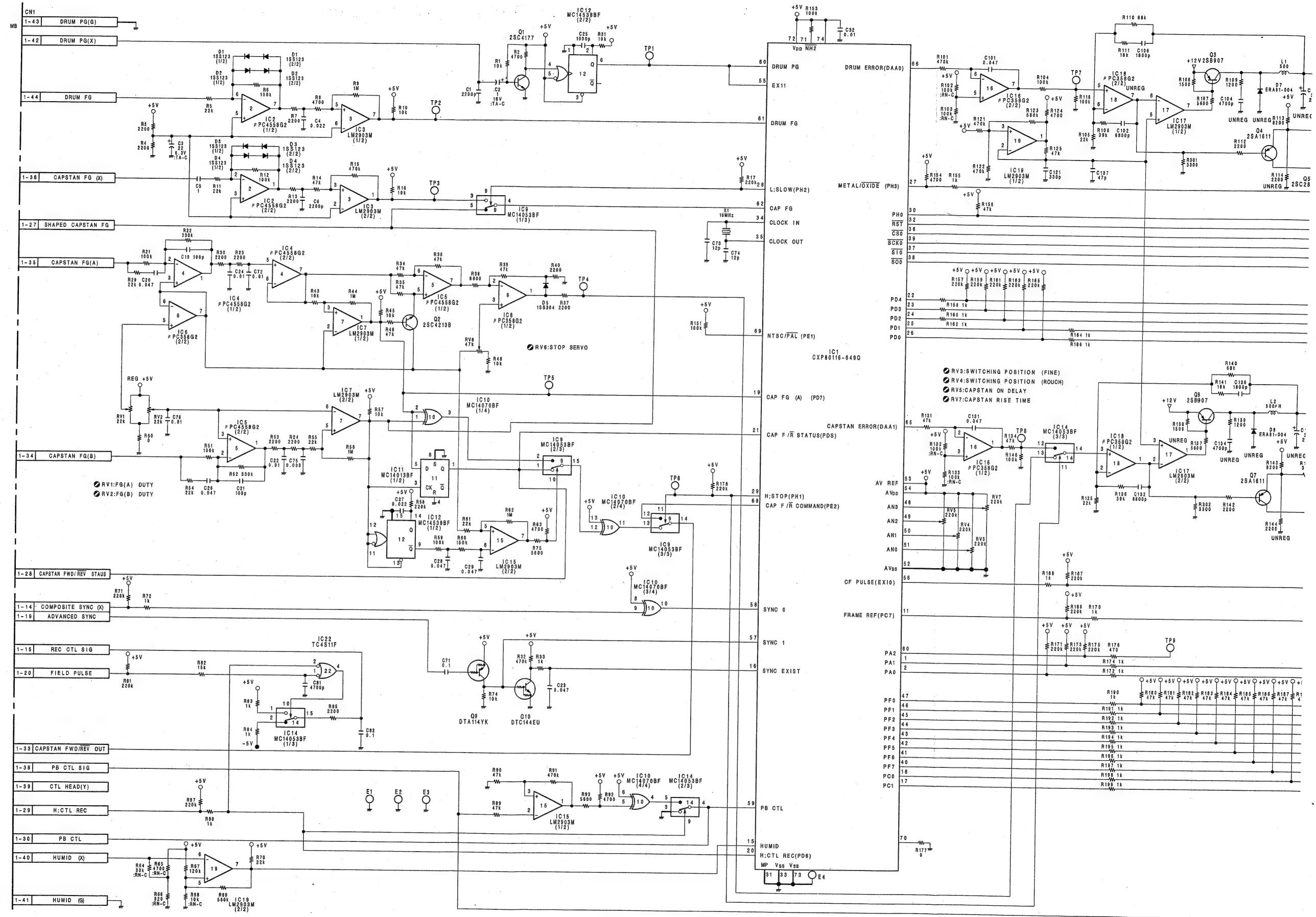


FL-55P BOARD

1-625-893-12

BVW-300AP(EK)

SV-97AP;DRUM/CAPSTAN SERVO

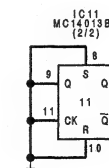


SV-97AP	SV-97AP
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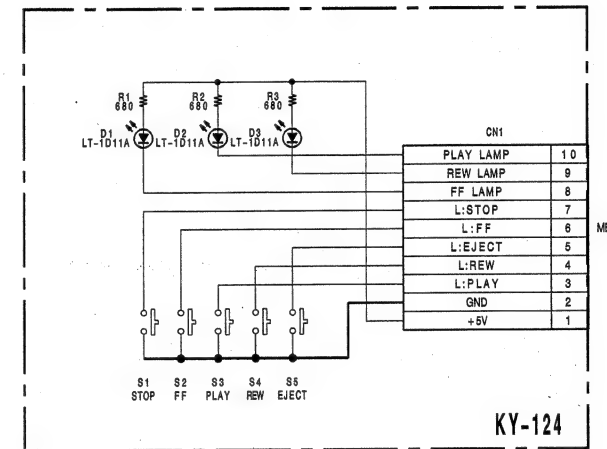
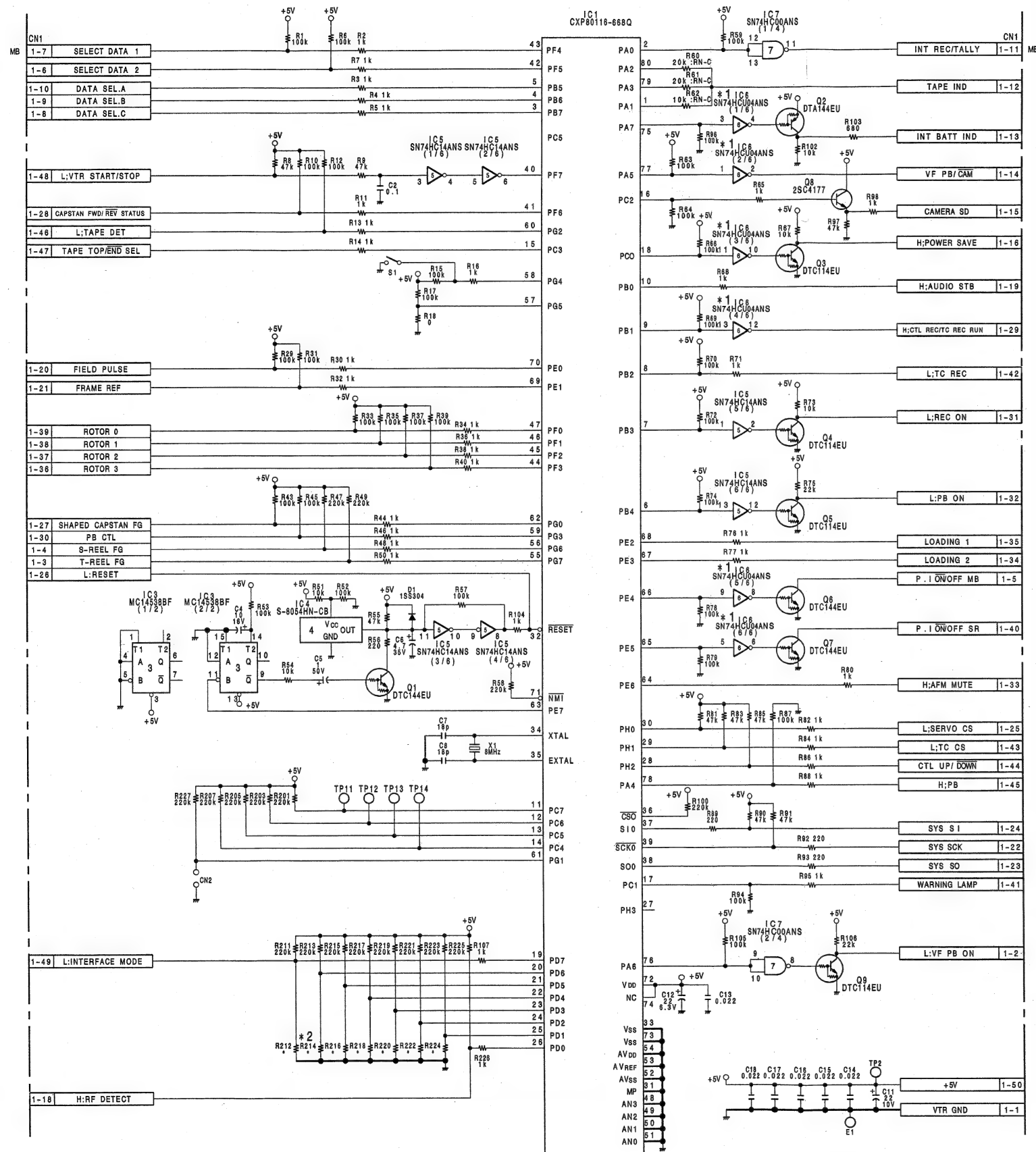
MARK	CHANGE INFORMATION	SERIAL NO.
#1	C91 27 → 39 25V → 50V	44001-
	C103 82 → 82 25V → 35V	

IC Ref	Parts No.	V _{CC}	V _{SE}	V _{SS}	PASS CON Ref
IC2	PFC458Q2	+5V/8P	GND/4P		C33 0.01
IC3	LM2903M	+5V/8P	GND/4P		C24 0.01
IC4	PFC458Q2	+5V/8P	GND/4P		C35 0.01
IC5	PFC458Q2	+5V/8P	GND/4P		C36 0.01
IC6	PFC358Q2	+5V/8P	GND/4P		C37 0.01
IC7	LM2903M	+5V/8P	GND/4P		C38 0.01
IC9	MC14053BF	+5V/16P	GND/8P		C40 0.01
IC10	MC14070BF	+5V/14P	GND/7P		C41 0.01
IC11	MC14013BF	+5V/14P	GND/7P		C42 0.01
IC12	MC14538BF	+5V/16P	GND/8P		C43 0.01
IC14	MC14053BF	+5V/16P	GND/8P	-5V/7P	C45 0.01 C46 0.01
IC15	LM2903M	+5V/8P		-5V/4P	C47 0.01 C48 0.01
IC16	PFC358Q2	+5V/8P	GND/4P		C49 0.01
IC17	LM2903M	+5V/8P	GND/4P		C50 0.01
IC18	PFC358Q2	+5V/8P	GND/4P		C51 0.01
IC19	LM2903M	+5V/8P	GND/4P		C52 0.01
IC22	TC4511F	+5V/6P	GND/3P		C39 0.01



SV-97AP BOARD
1-625-540-14
BVW-300AP(EK)

SY-117CP;SYSTEM CONTROL
KY-124;KEY BOARD



KY-124 BOARD
1-625-549-11
BVW-300AP(EK)

MARK	CHANGE INFORMATION	SERIAL NO.
* 1	IC6 TC40H004F SN74HCU04ANS	42157-
* 2	R214 0 DELETE	42004-

SY-117CP BOARD
1-625-539-21
BVW-300AP(EK)

TC-48AP(1/3) TC-48AP(1/3)

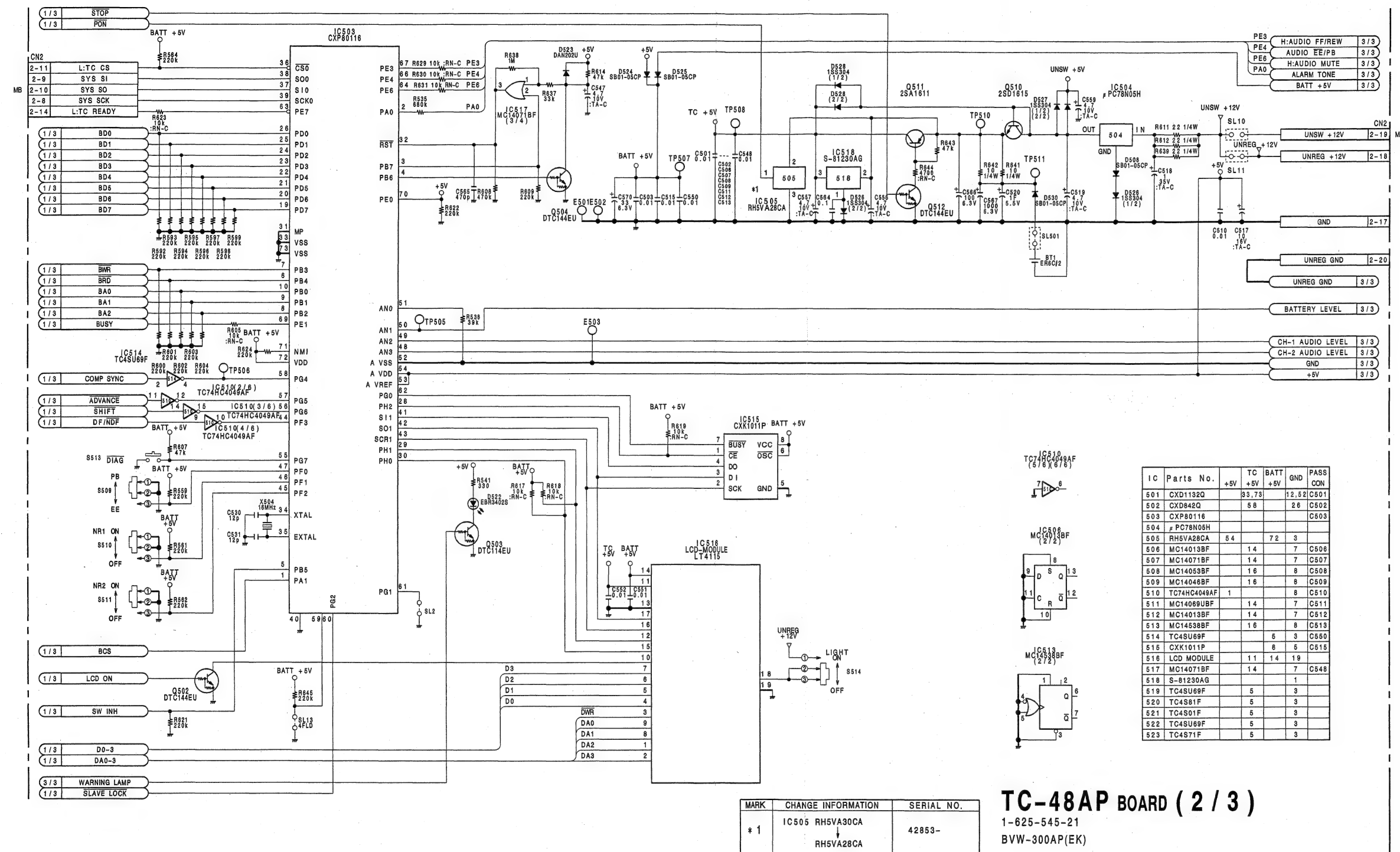


BVW-300AP(EK)

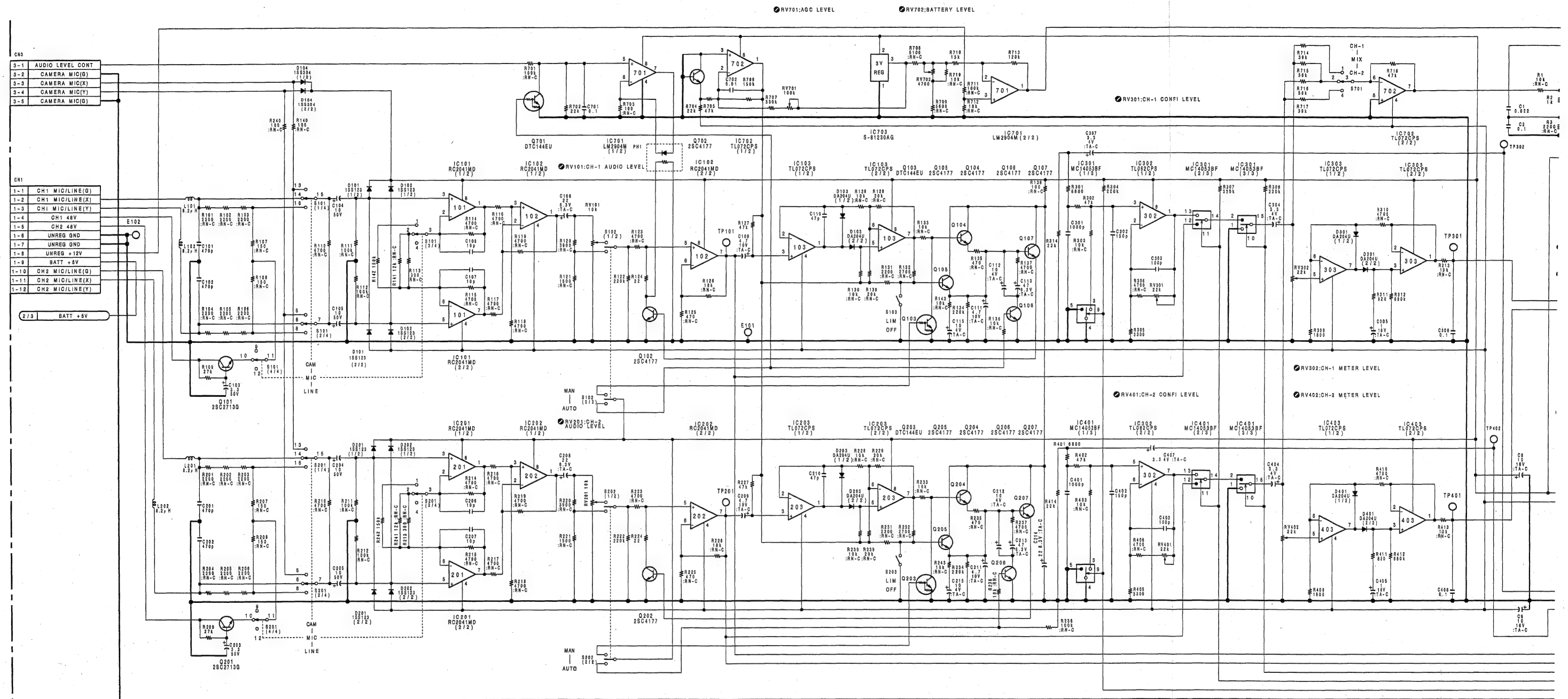
A

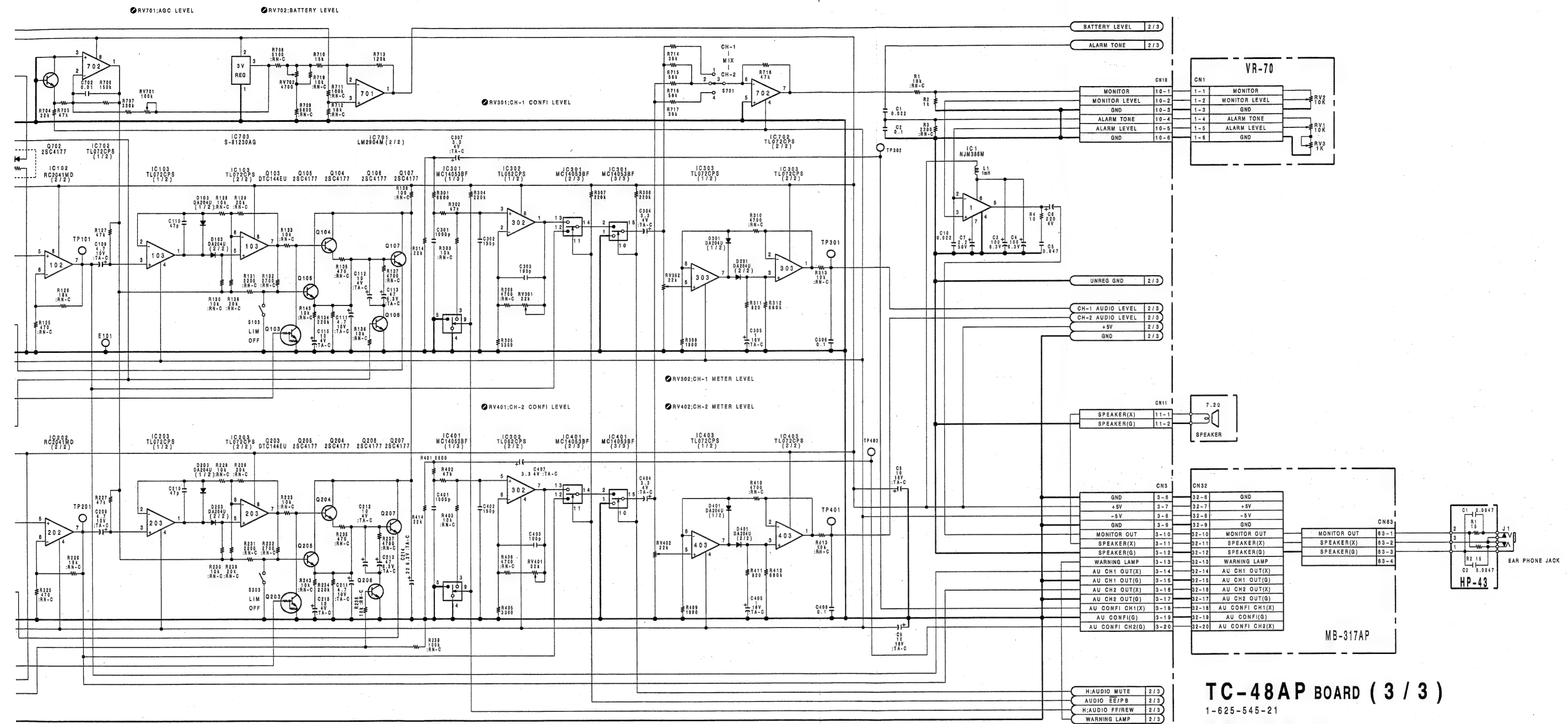
TC-48AP(2/3) TC-48AP(2/3)

TC-48AP(2/3);TIME CODE SW, INDICATOR



TC-48AP(3/3);INPUT SELECT,LEVEL CONTROL,MONITOR





TC-48AP BOARD (3 / 3)

1-625-545-21

VR-70 BOARD

1-625-553-13

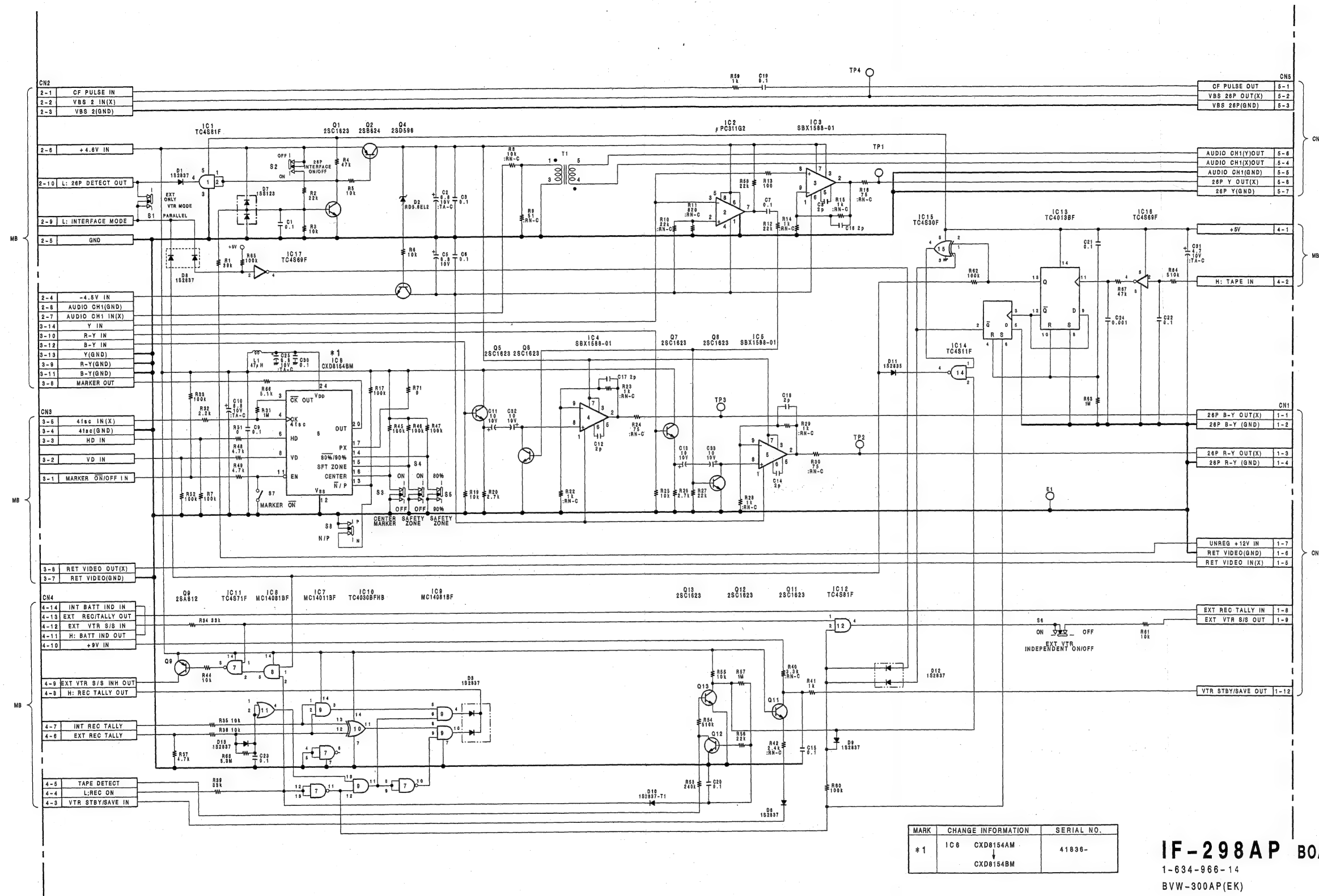
HP-43 BOARD

1-627-593-12

BVW-300AP(EK)

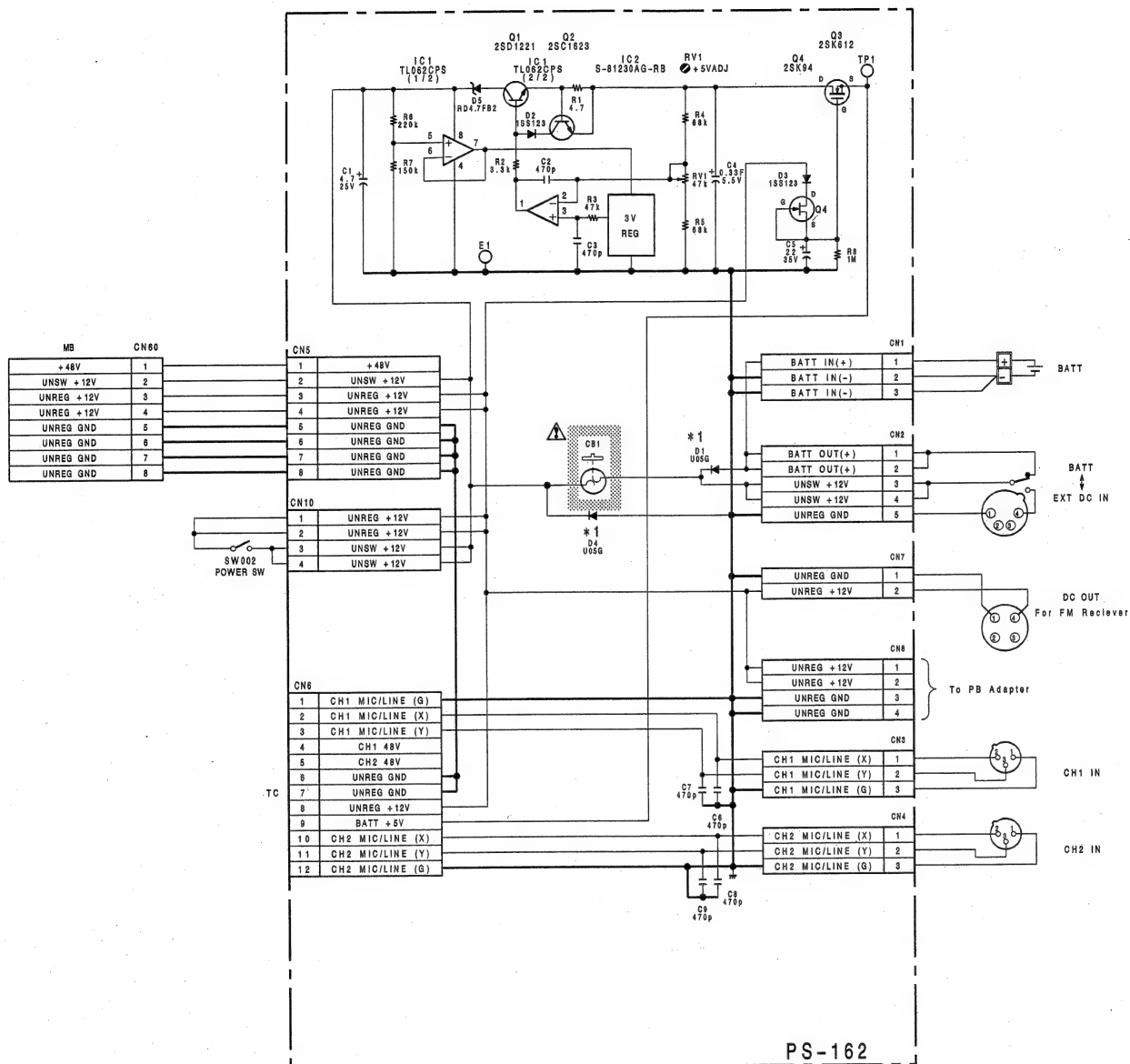
IF-298AP IF-298AP

IF-298AP;INTERFACE



IF-298AP BOARD
1-634-966-14
BVW-300AP(EK)

PS-162; POWER DISTRIBUTOR



注意1: △印及び影で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:

The shaded and △-marked components are critical to safety. Replace only with same components as specified.

PS-162 BOARD

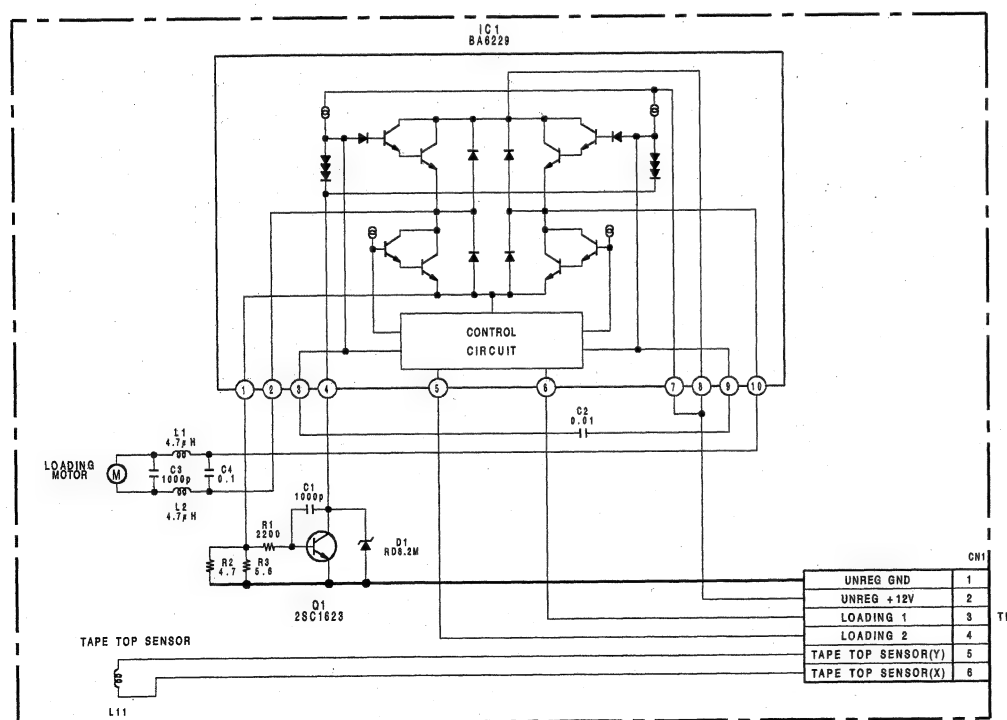
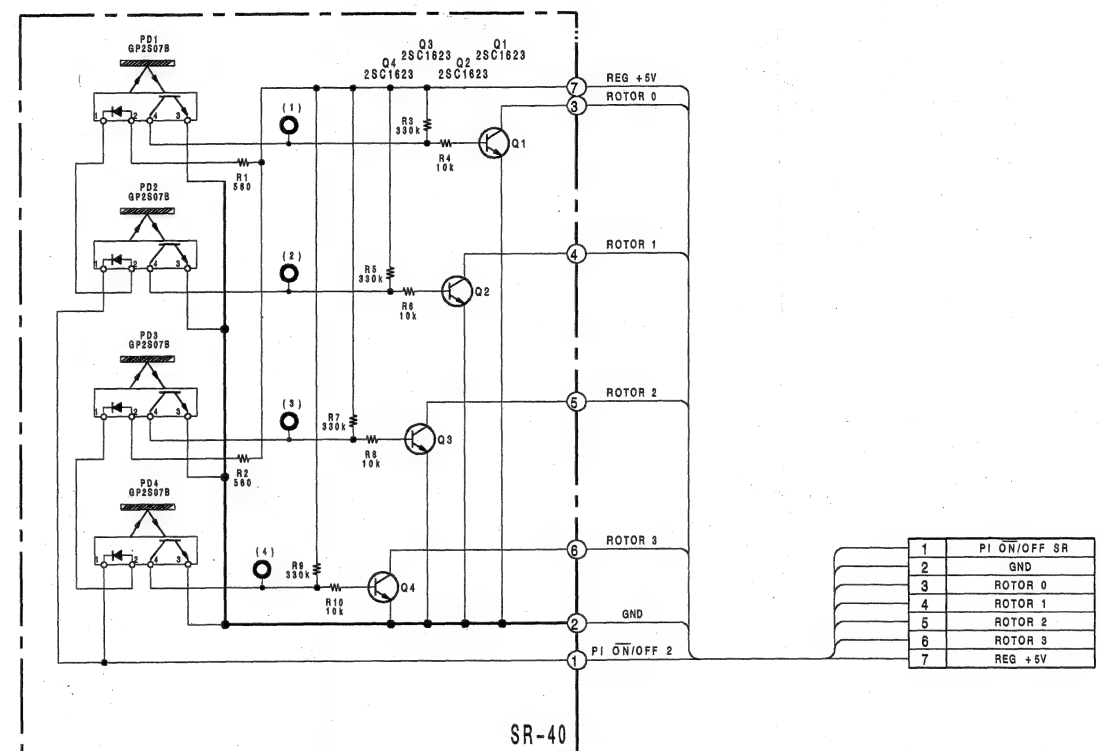
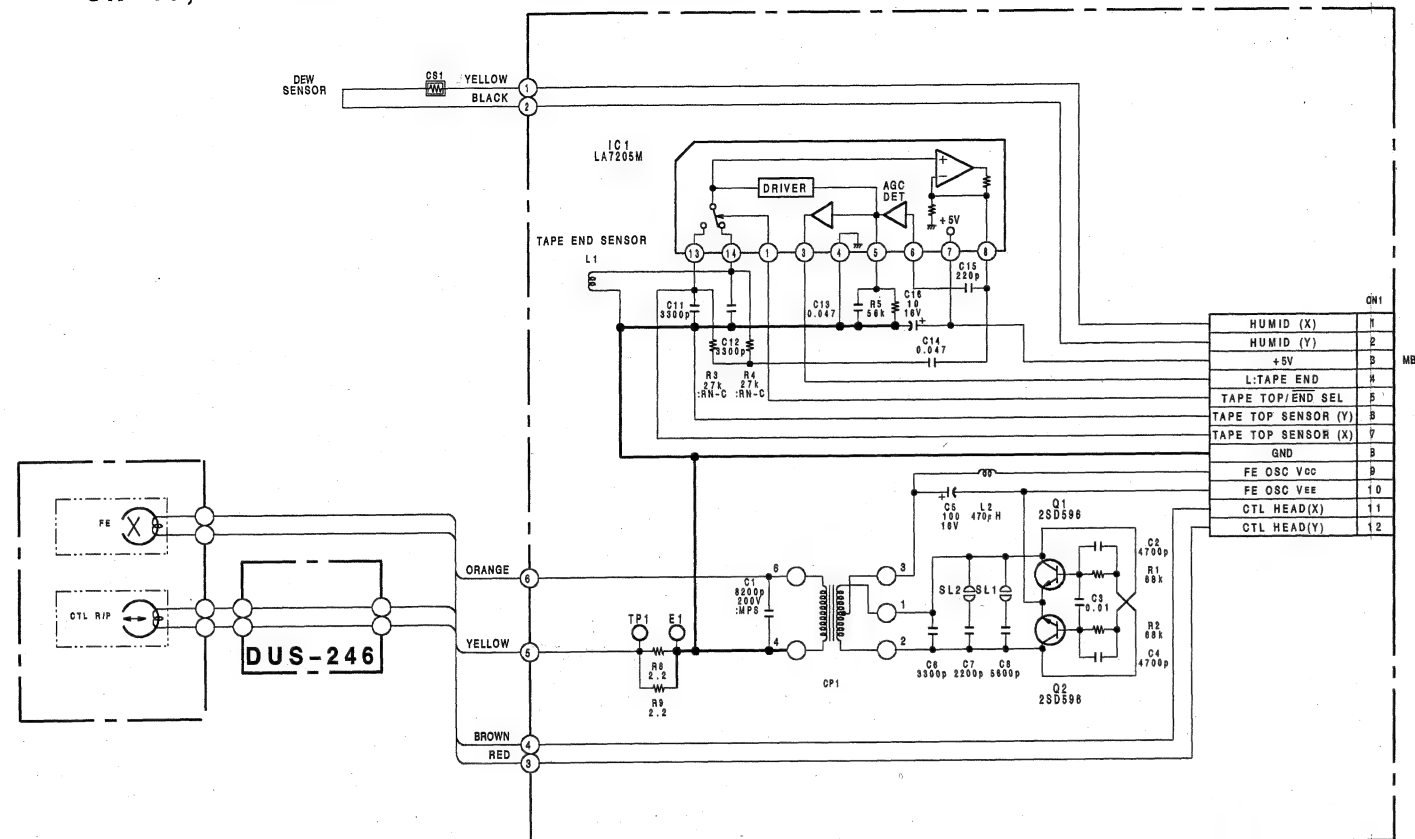
1-625-547-13

BVW-300AP(EK)

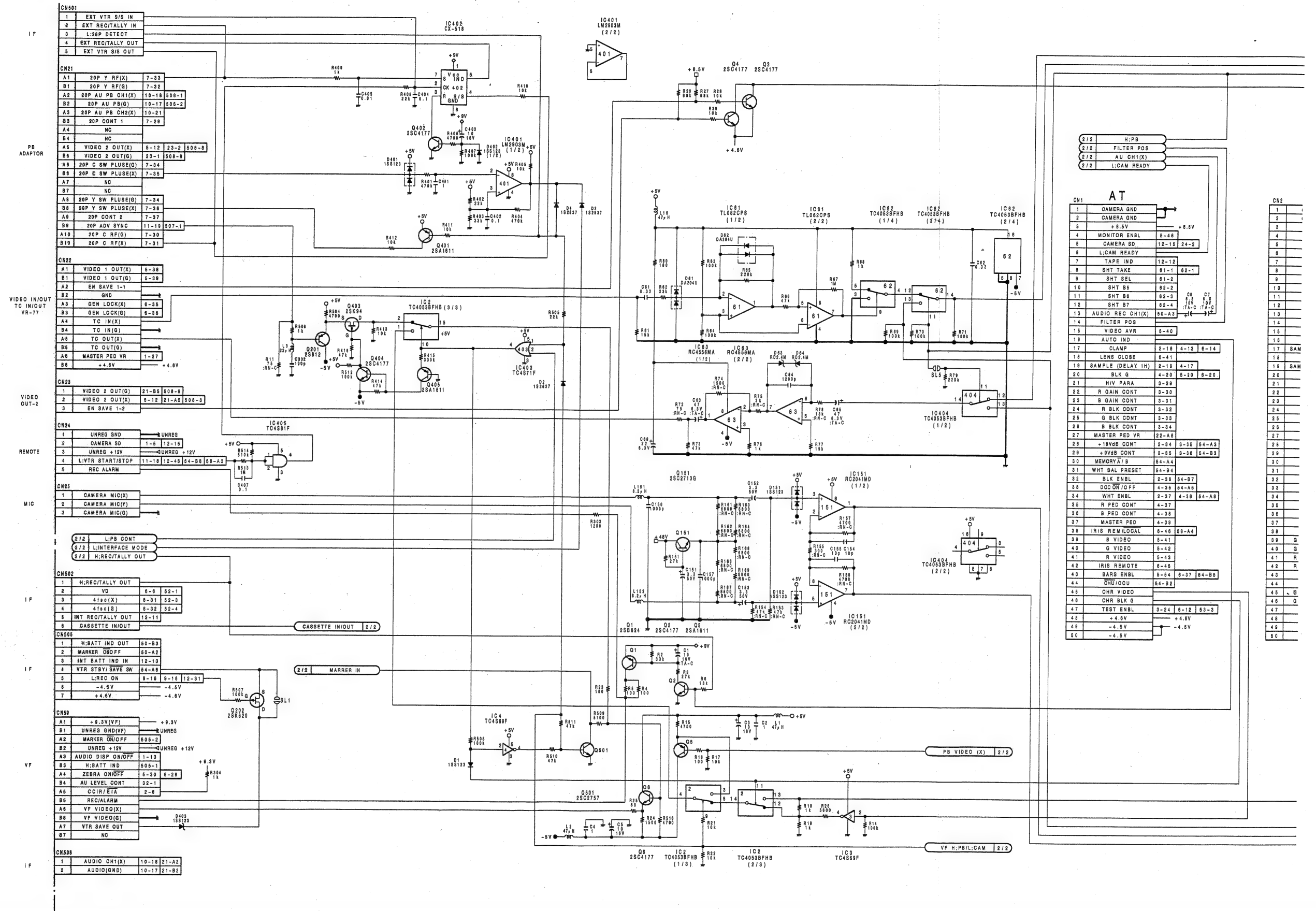
MARK	CHANGE INFORMATION	SERIAL No.
*1	D1, D4 U05E → U05G	42206-

FE-4;FULL ERASE
LD-21;LOADING
SR-40;MECHANICAL POSITION SENSOR

FE-4,LD-21,SR-40 FE-4,LD-21,SR-40

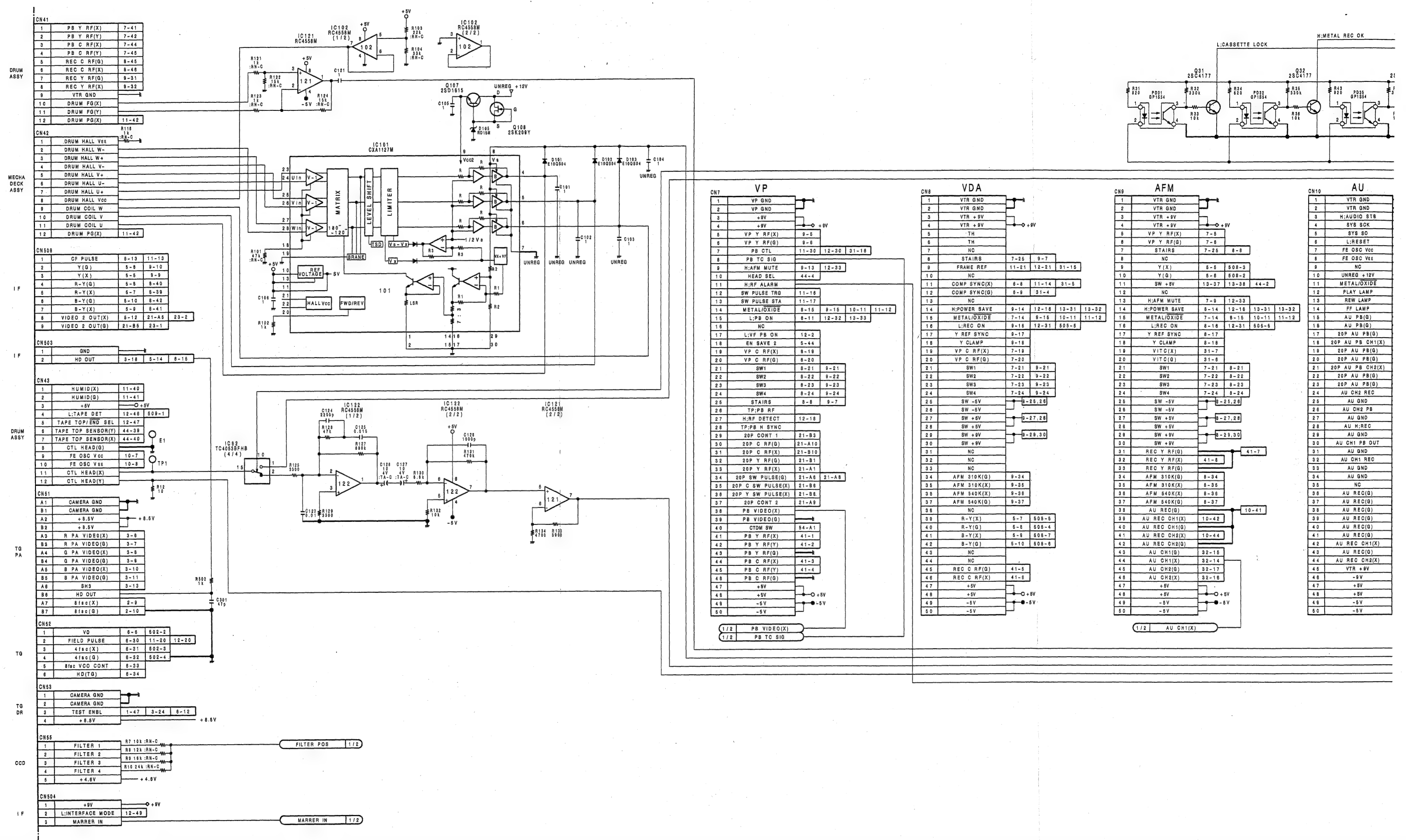


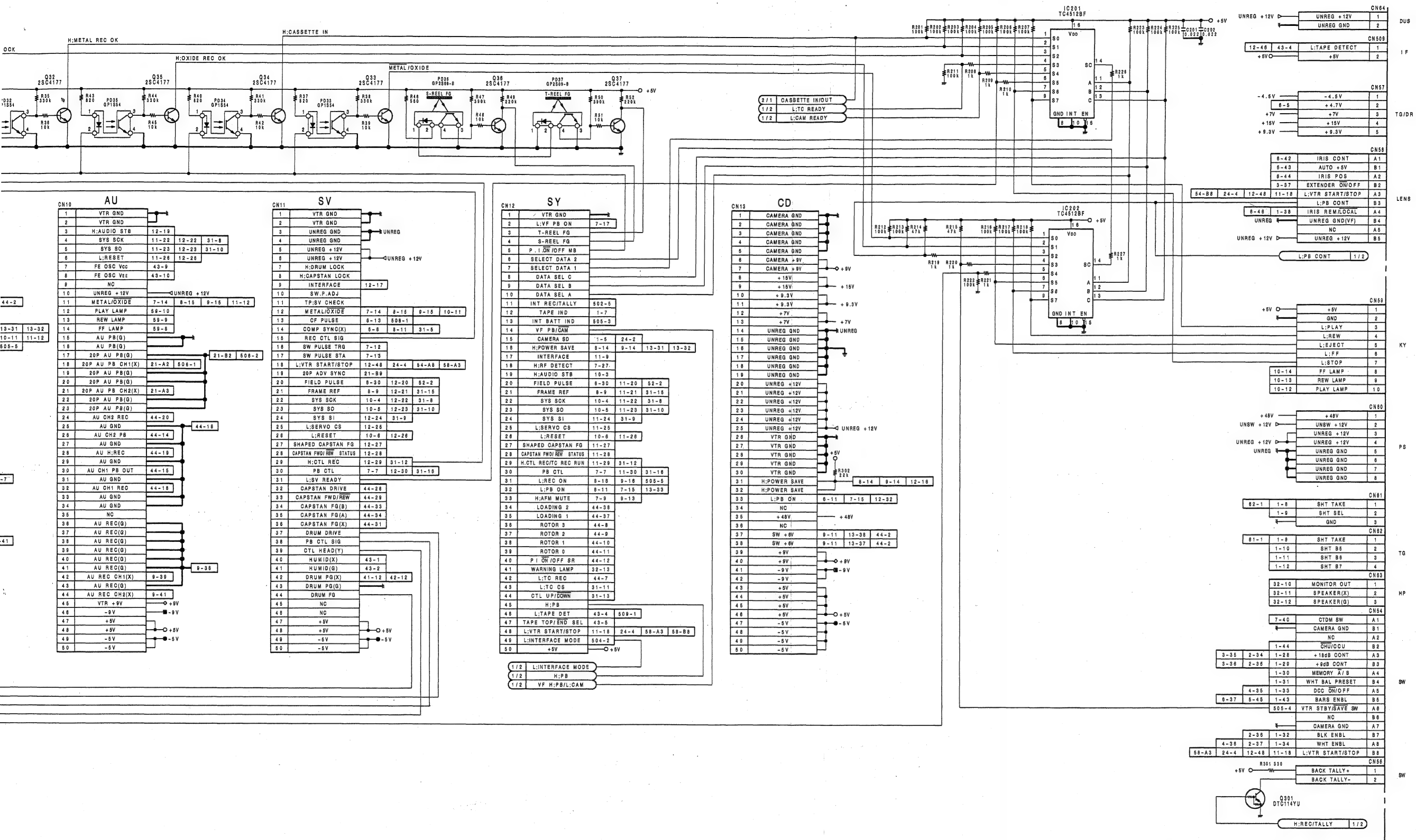
MB-317AP(1/2);MOTHER BOARD



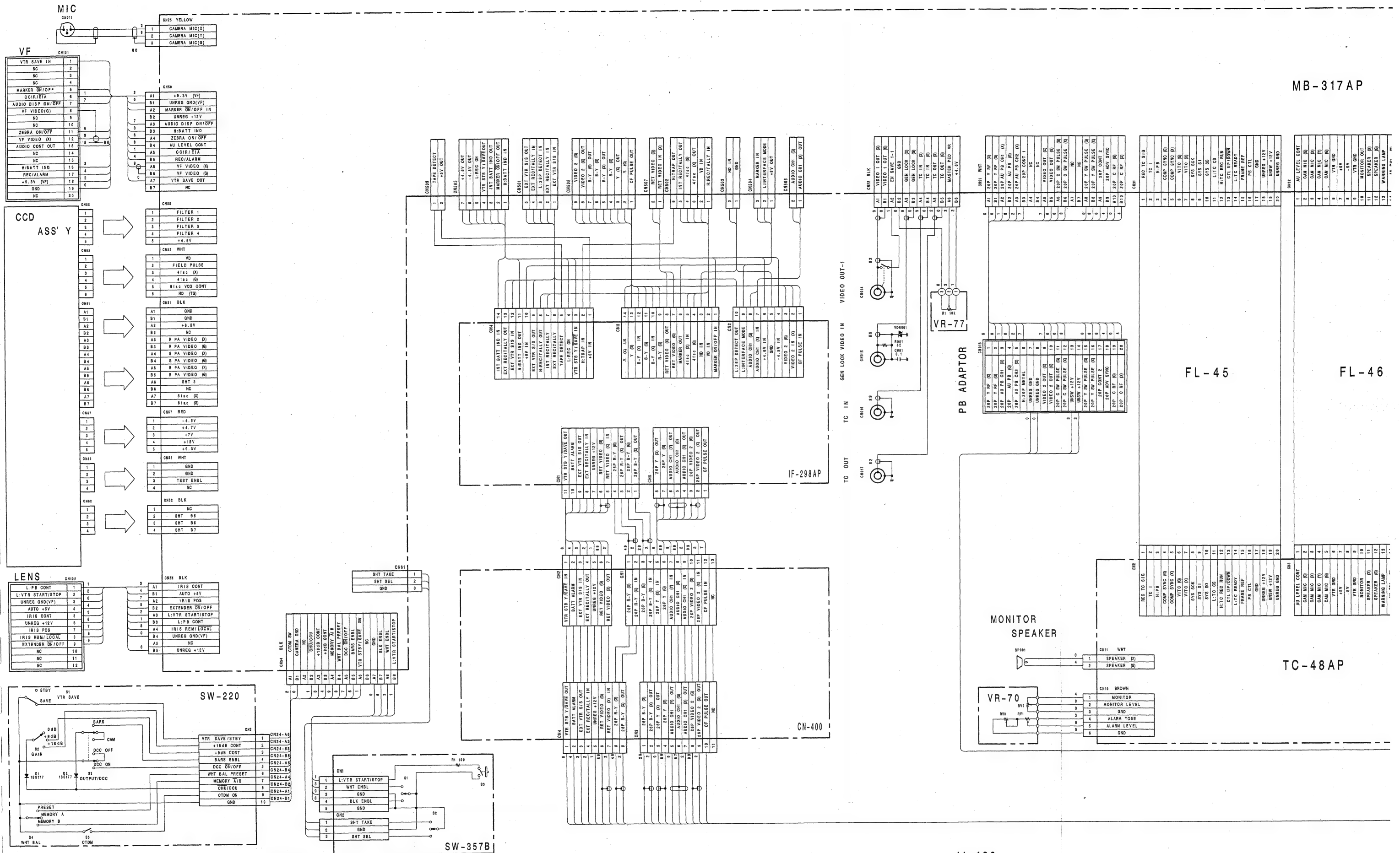


MB-317AP(2/2);MOTHER BOARD





FRAME (1/3)



MB-317AP

FL-46

TC-48AP

FL-57

MECHA DECK ASS'Y

VIDEO OUT-2

REMOTE

BATT

EXT+12V

DC OUT

CH-1

CH-2

BKW-402
VTR CONNECTOR UNIT

FRAME(1/3)
BVW-300AP(EK)

11-139

11-140

H

I

J

K

L

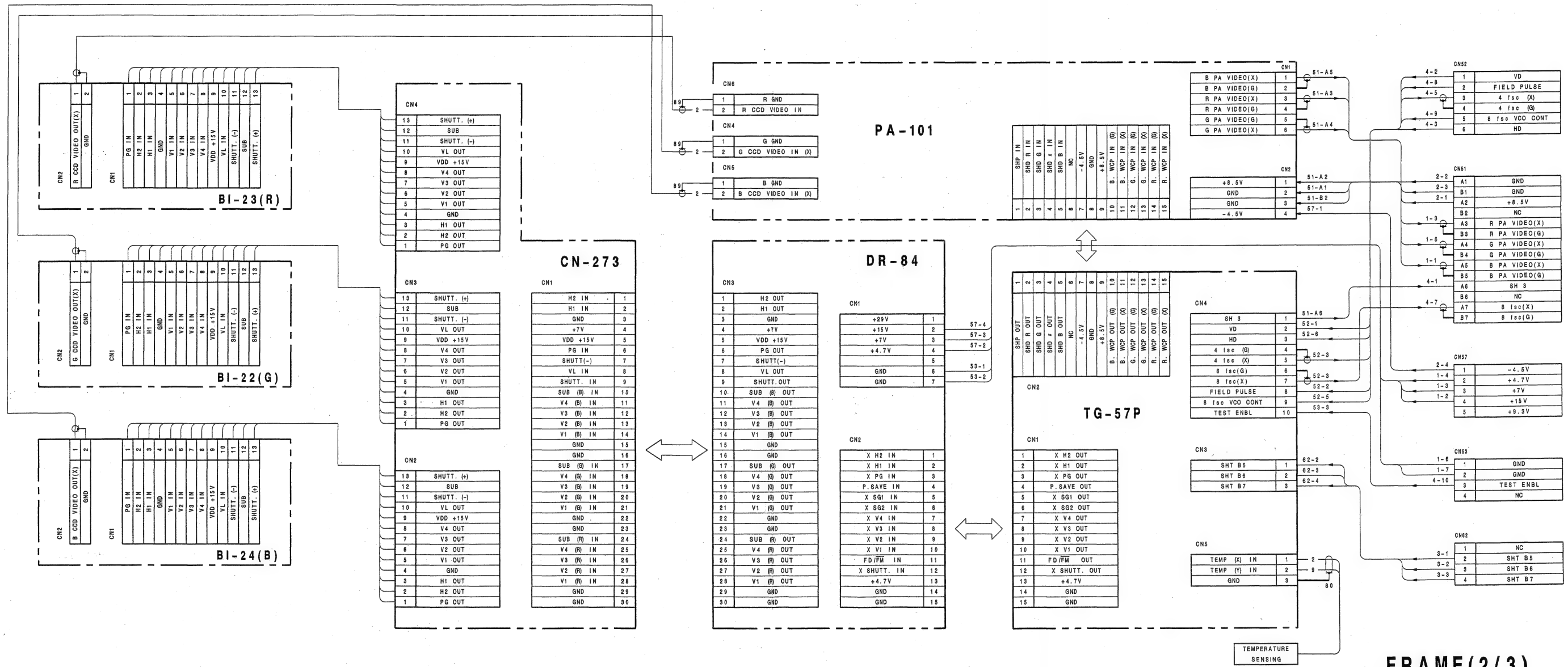
M

N

O

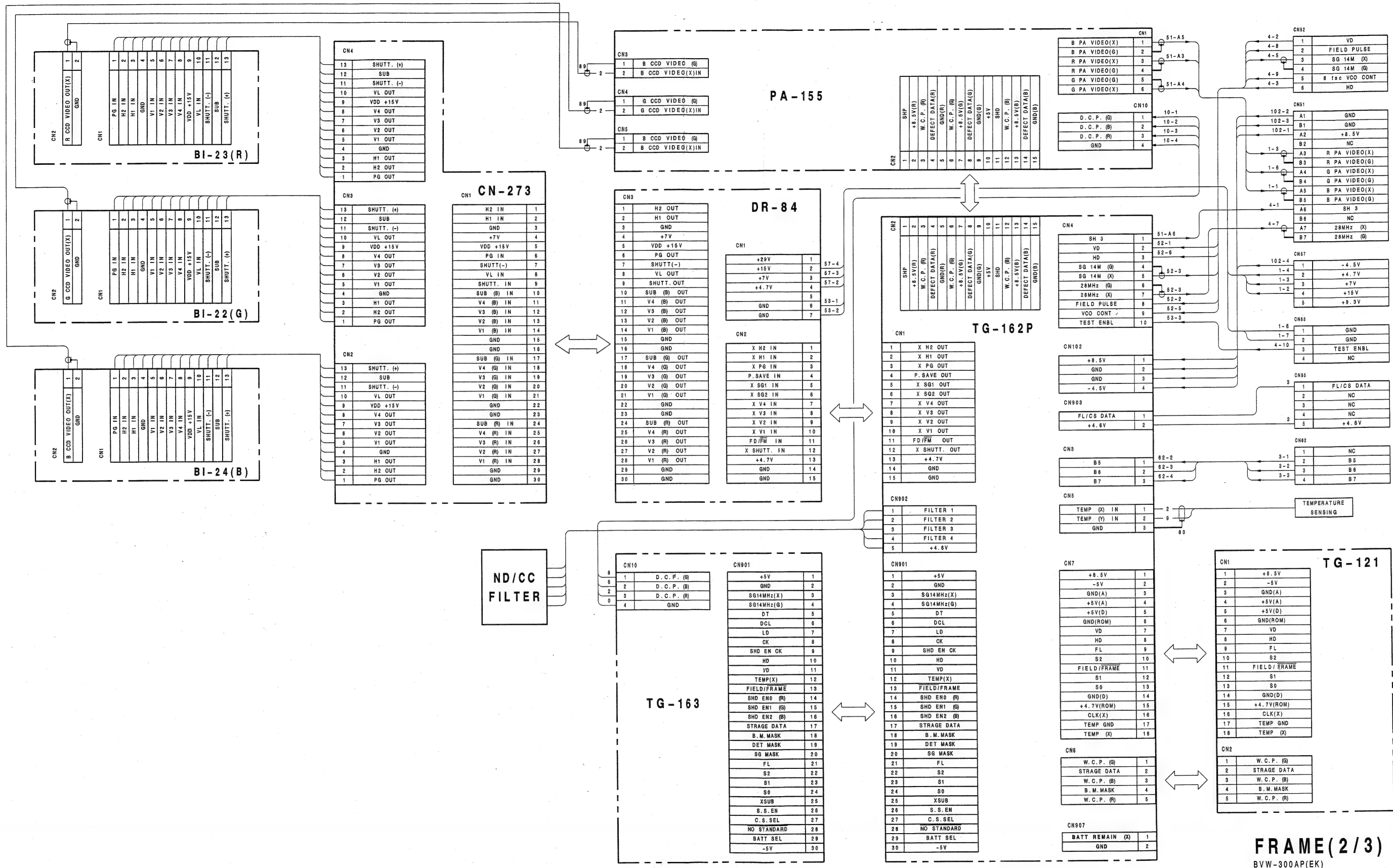
FRAME(2/3)

S/N; 41954 through 43999

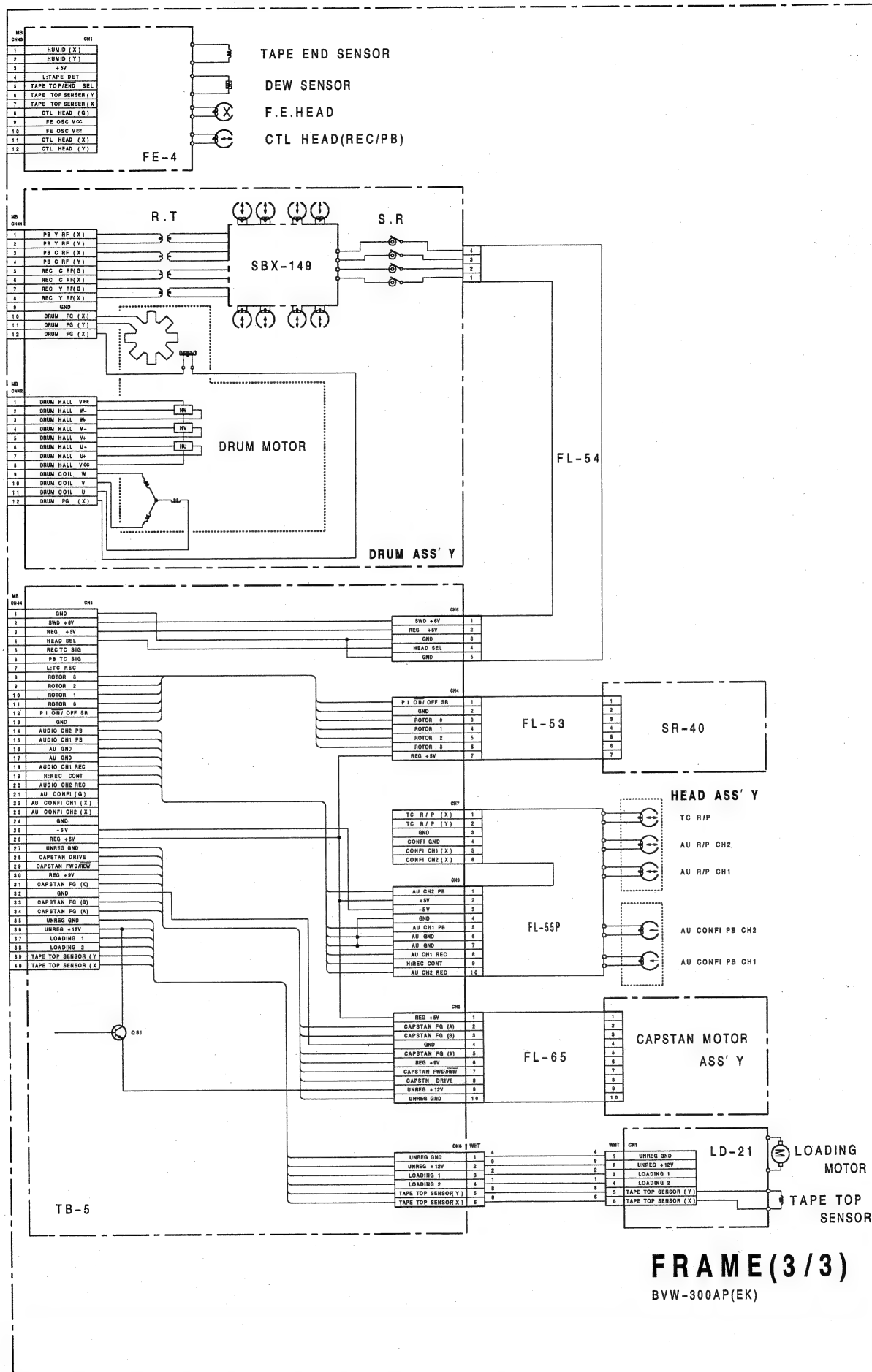


FRAME(2/3)

S / N; 44001 and higher



FRAME (2 / 3)
BVW-300AP(EK)



LP-40, LP-42, LP-58
VR-67, SW-260A, VF-32

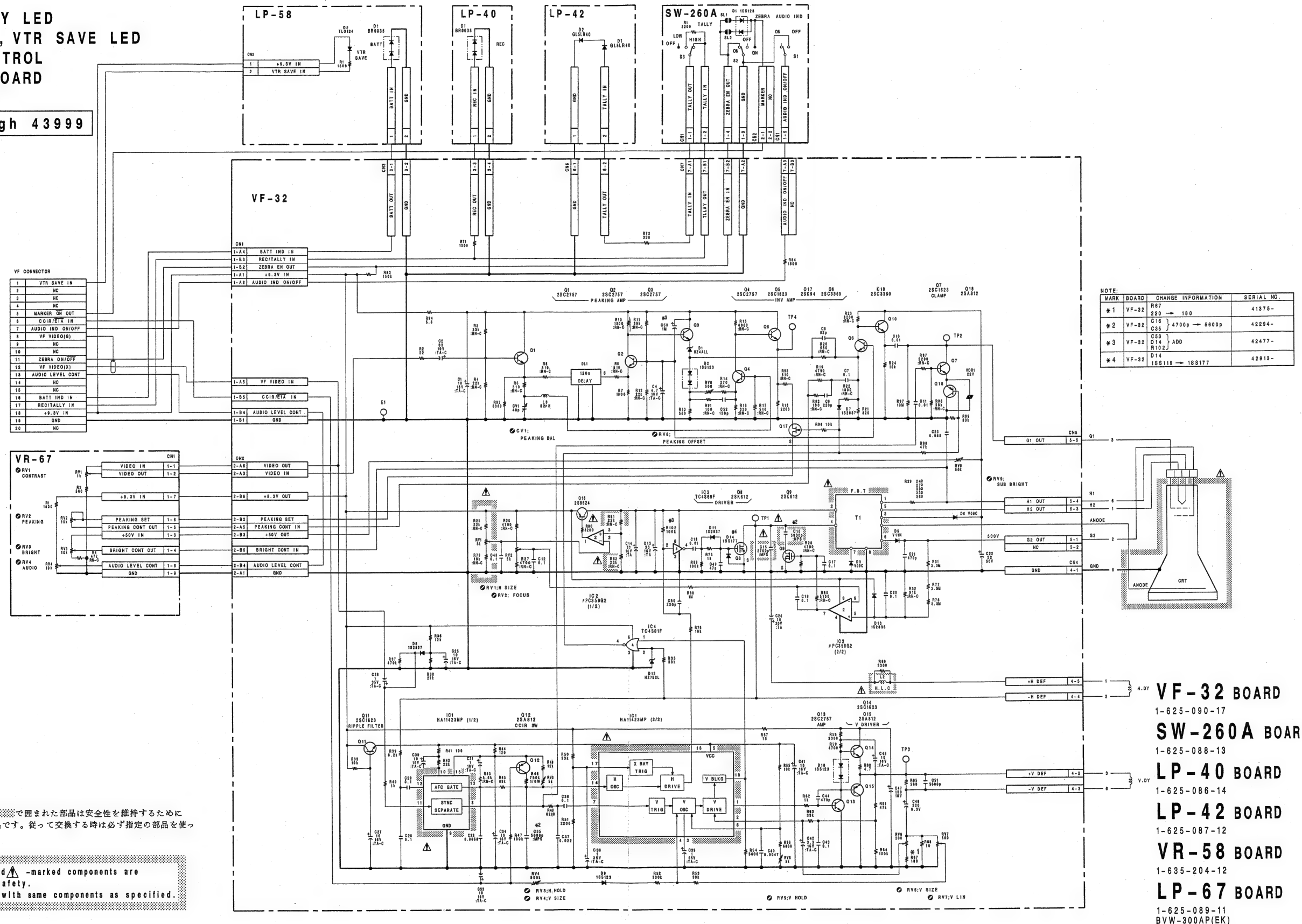
VIEWFINDER

LP-40, LP-42, LP-58
VR-67, SW-260A, VF-32

VIEWFINDER

LP-40; REC LED
LP-42; FRONT TALLY LED
LP-58; BATT/TALLY, VTR SAVE LED
VR-67; VOLUME CONTROL
SW-260A; SWITCH BOARD
VF-32; VIEWFINDER

S/N; 41954 through 43999



注意1; 印及びで囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使って下さい。

NOTE:

The shaded and -marked components are critical to safety. Replace only with same components as specified.

11-149(a)

11-150(a)

A

B

C

D

E

F

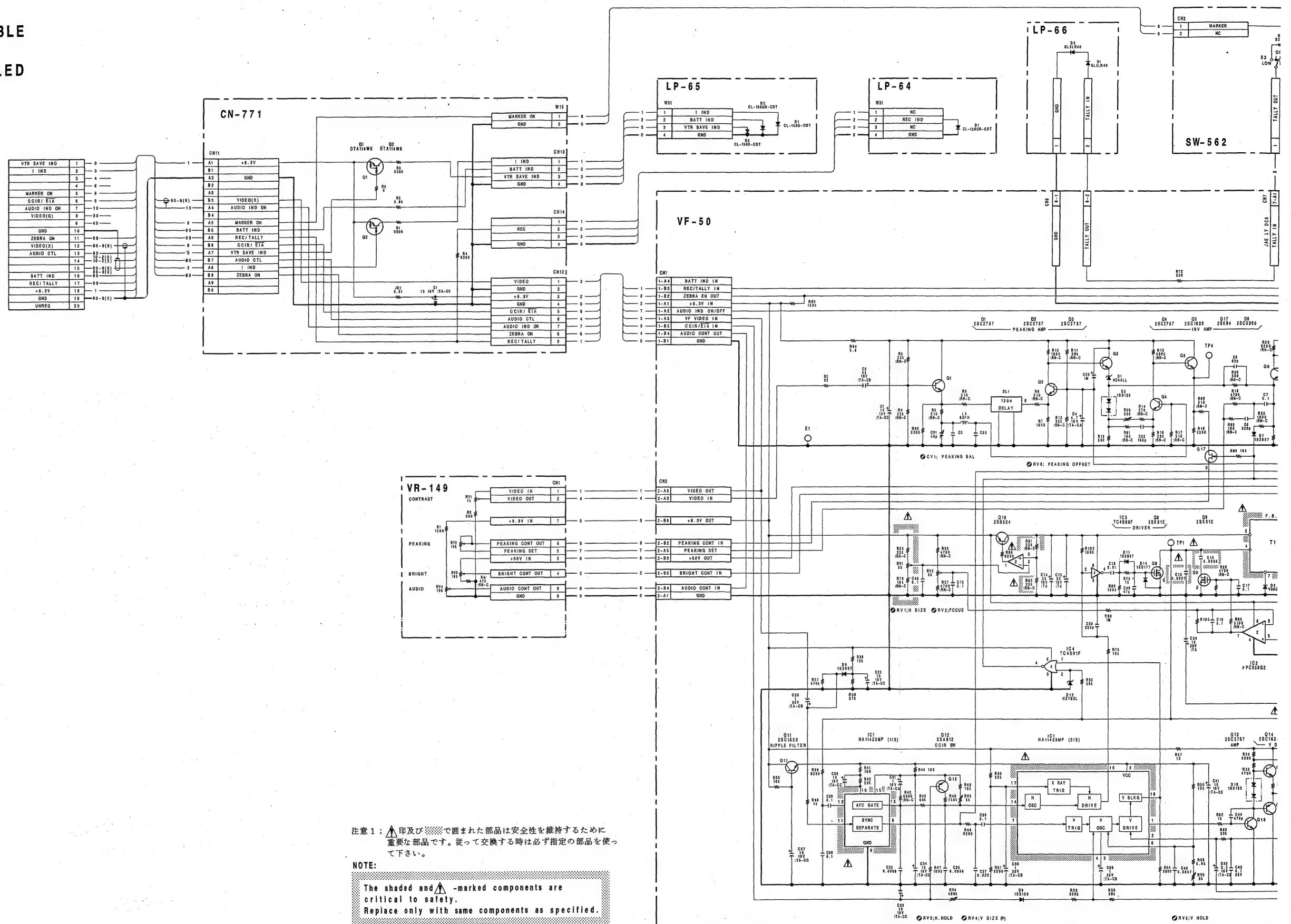
G

H

VIEWFINDER

CN-771;CONNECTOR FOR VF CABLE
LP-64;REC LED
LP-65;BATT/TALLY, VTR SAVE LED
LP-66;FRONT TALLY LED
VR-149;VOLUME CONTROL
SW-562;SWITCH BOARD
VF-50;VIEWFINDER

S/N; 44001 and higher



11-149(b)

11-150(b)

A

B

C

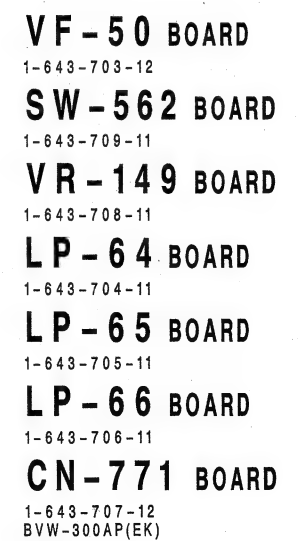
D

E

F

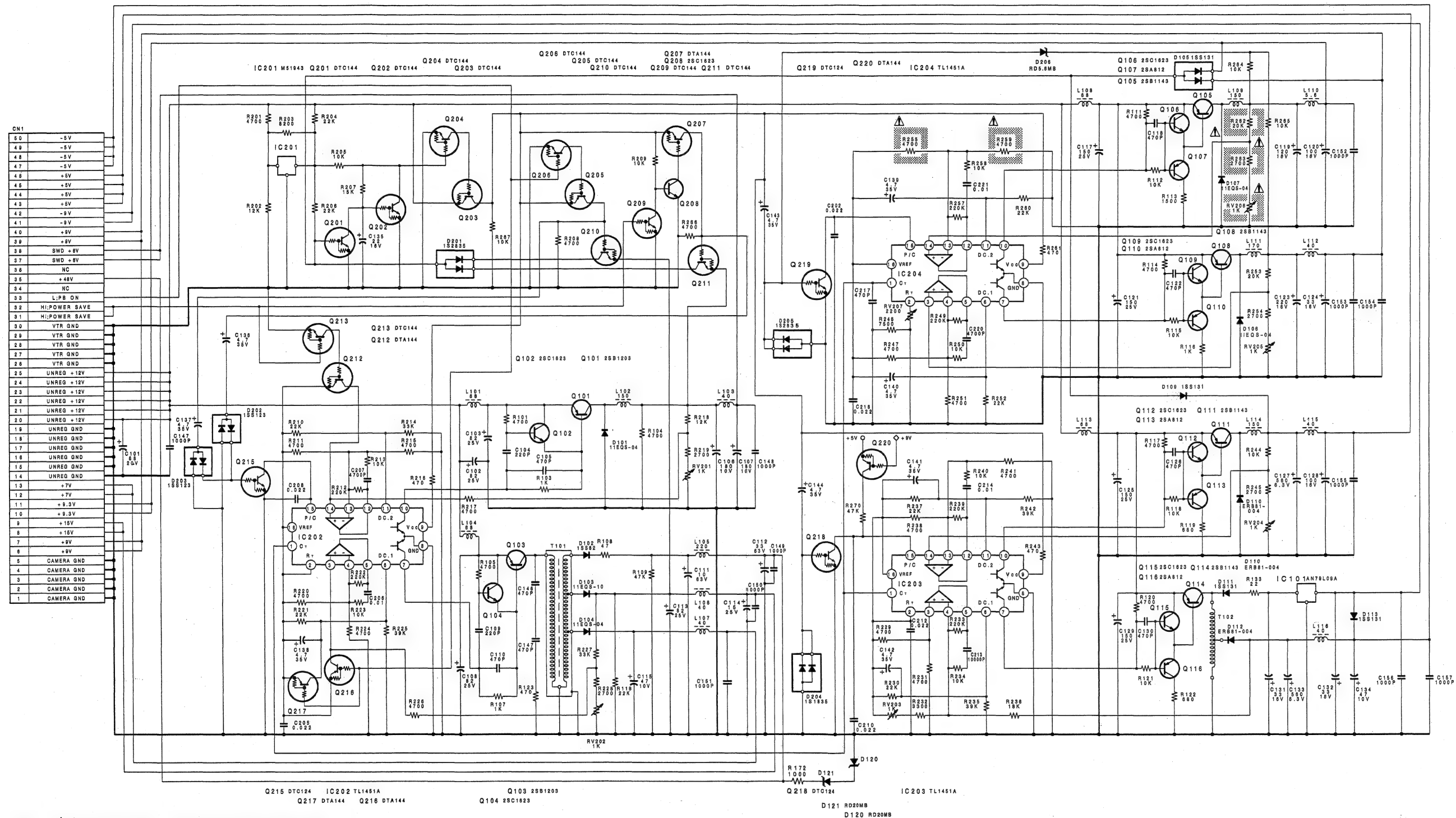
G

H



11-150-1(b)

CD-89;DC-DC CONVERTER



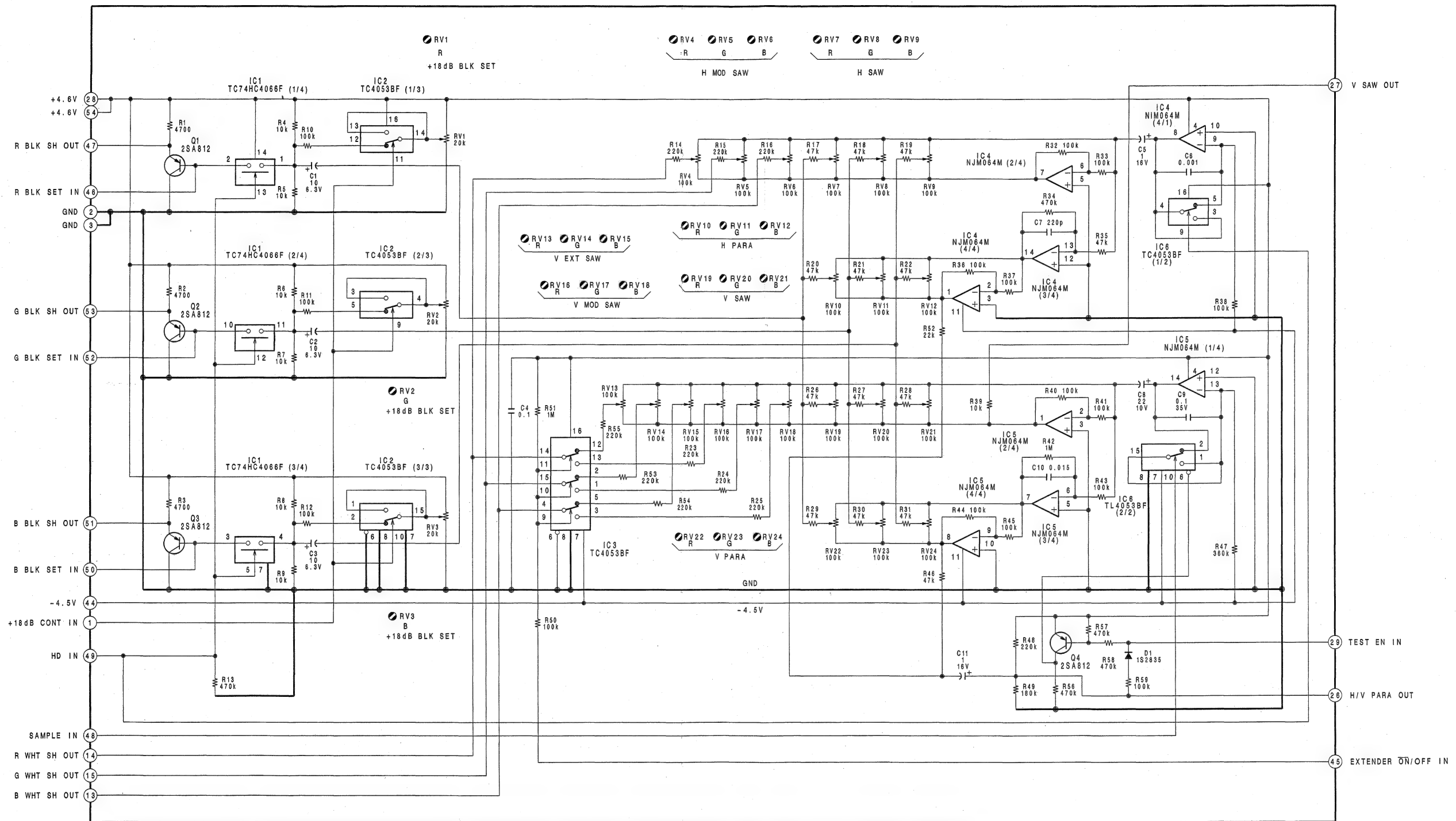
注意 1; 印及び で囲まれた部品は安全性を維持するために重要な部品です。従って交換する時は必ず指定の部品を使て下さい。

NOTE:
The shaded and -marked components are critical to safety.
Replace only with same components as specified.

CD-89 BOARD
1-464-995-21
BVW-300AP(EK)

BH-1252 BH-1252

S/N; 41954 through 43999



BH-1252

1-808-253-12, 13
BVW-300AP(EK)

11-157(a)

11-158(a)

A

B

C

D

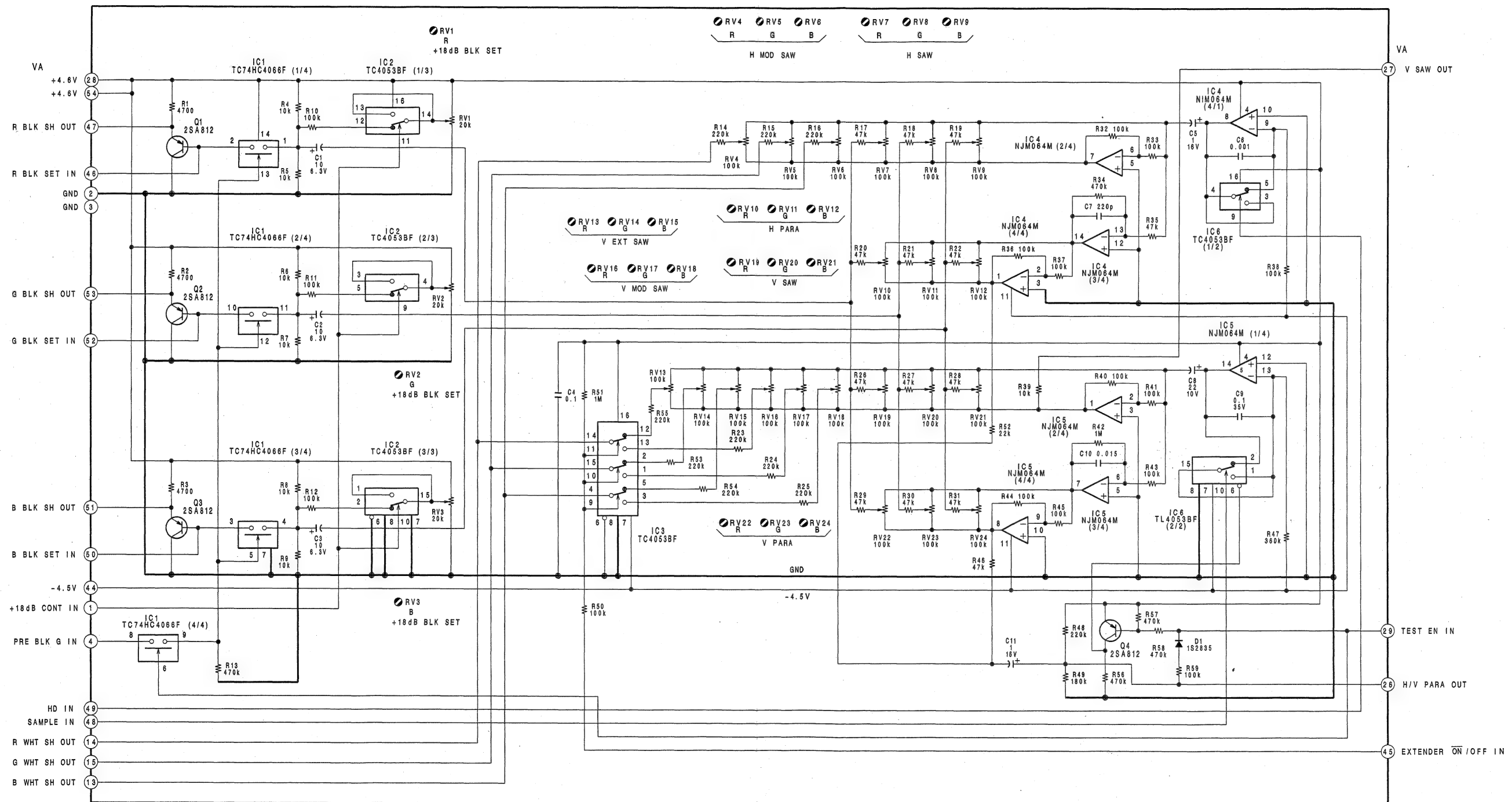
E

F

G

H

S/N;44001 and higher



BH-1263 BOARD

BVW-300AP (EK)
(BKW-301P)

SECTION 12
PRINTED WIRING BOARDS

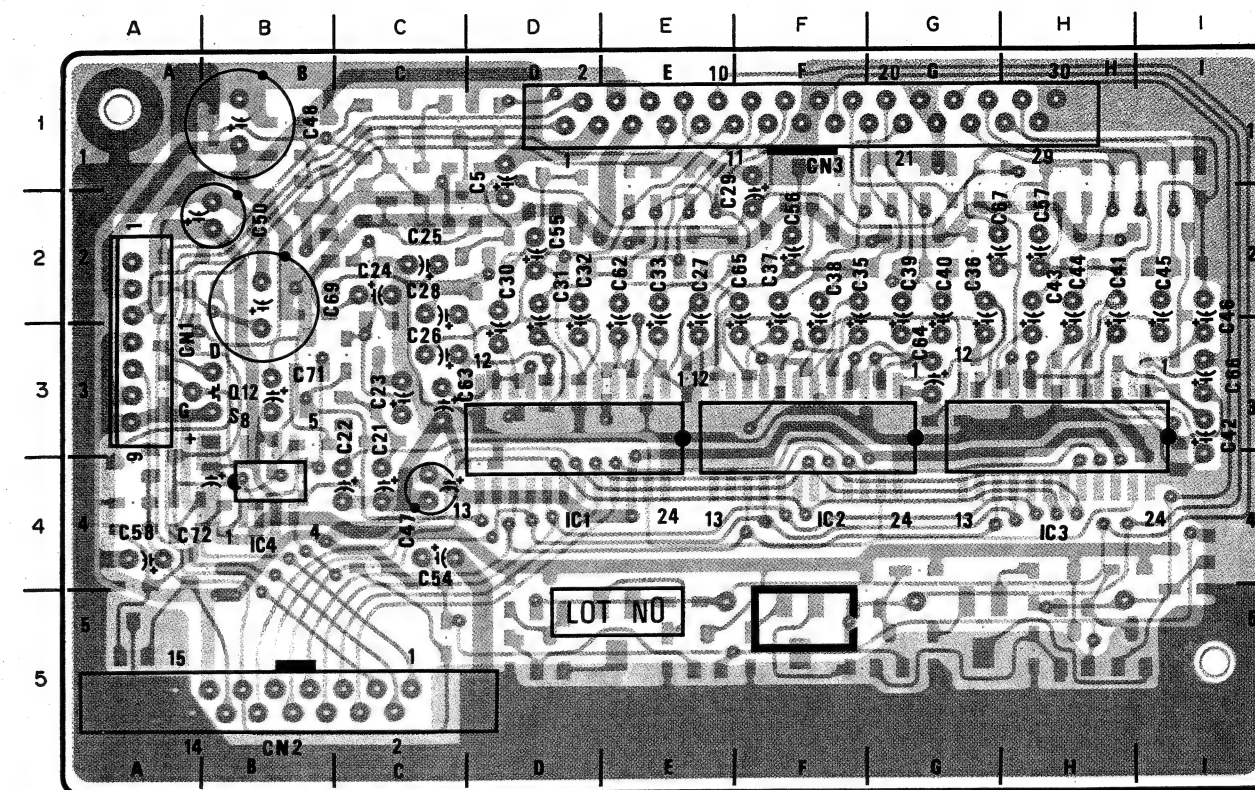
DR-84

DR-84;CCD DRIVE

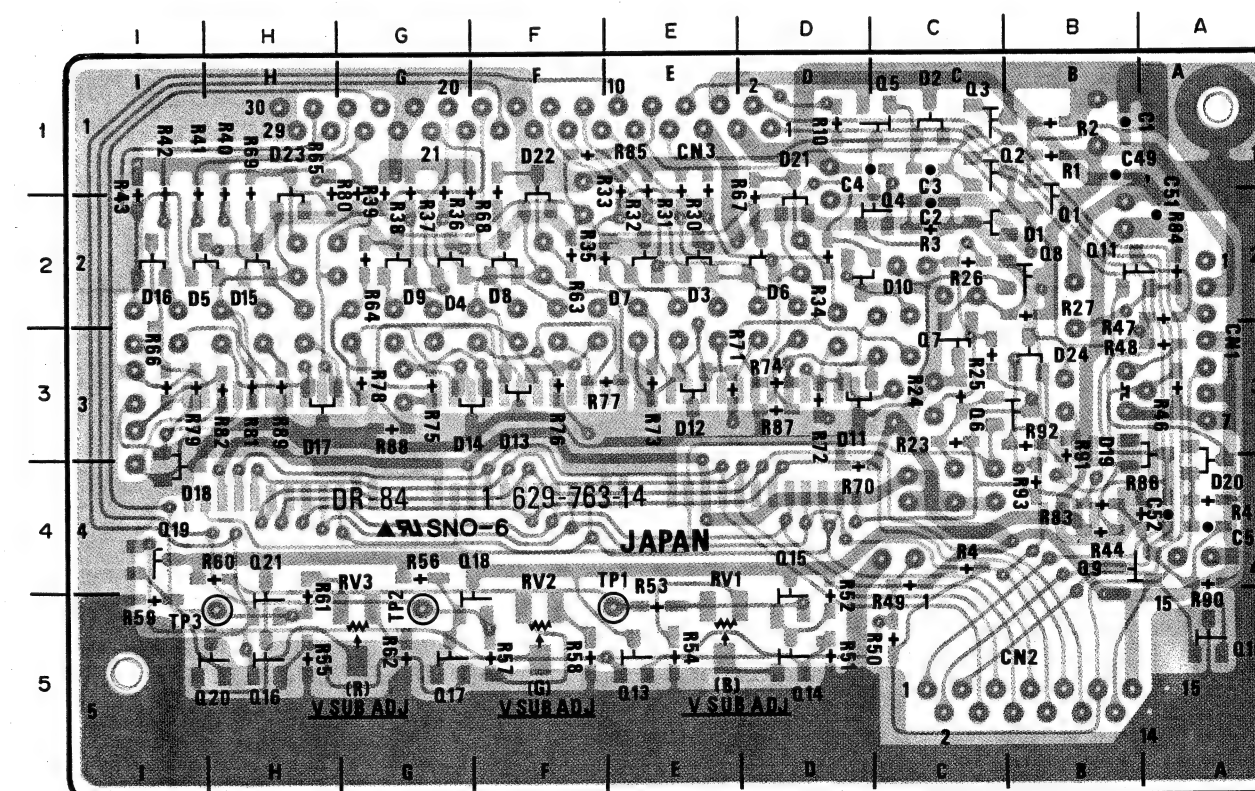
CN1	A-3	Q18	G-4
CN2	B-5	Q19	I-4
CN3	F-1	Q20	H-5
		Q21	H-4
D1	B-2		
D2	C-1	RV1	E-4
D3	E-2	RV2	F-4
D4	G-2	RV3	G-4
D5	I-2		
D6	D-2	TP1	E-4
D7	E-2	TP2	G-5
D8	F-2	TP3	H-5
D9	G-2		
D10	C-2		
D11	D-3		
D12	E-3		
D13	F-3		
D14	F-3		
D15	H-2		
D16	I-2		
D17	H-3		
D18	I-4		
D19	B-3		
D20	A-4		
D21	D-1		
D22	F-1		
D23	H-1		
D24	B-3		
IC1	D-4		
IC2	F-4		
IC3	H-4		
IC4	B-4		
Q1	B-2		
Q2	B-1		
Q3	C-1		
Q4	C-2		
Q5	C-1		
Q6	C-3		
Q7	C-3		
Q8	B-2		
Q9	B-4		
Q10	A-5		
Q11	B-2		
Q12	B-3		
Q13	E-5		
Q14	D-5		
Q15	D-4		
Q16	H-5		
Q17	G-5		

DR-84;CCD DRIVE

CN1	A-3	Q18	G-4
CN2	B-5	Q19	I-4
CN3	F-1	Q20	H-5
		Q21	H-4
D1	B-2		
D2	C-1	RV1	E-4
D3	E-2	RV2	F-4
D4	G-2	RV3	G-4
D5	I-2		
D6	D-2	TP1	E-4
D7	E-2	TP2	G-5
D8	F-2	TP3	H-5
D9	G-2		
D10	C-2		
D11	D-3		
D12	E-3		
D13	F-3		
D14	F-3		
D15	H-2		
D16	I-2		
D17	H-3		
D18	I-4		
D19	B-3		
D20	A-4		
D21	D-1		
D22	F-1		
D23	H-1		
D24	B-3		
IC1	D-4		
IC2	F-4		
IC3	H-4		
IC4	B-4		
Q1	B-2		
Q2	B-1		
Q3	C-1		
Q4	C-2		
Q5	C-1		
Q6	C-3		
Q7	C-3		
Q8	B-2		
Q9	B-4		
Q10	A-5		
Q11	B-2		
Q12	B-3		
Q13	E-5		
Q14	D-5		
Q15	D-4		
Q16	H-5		
Q17	G-5		

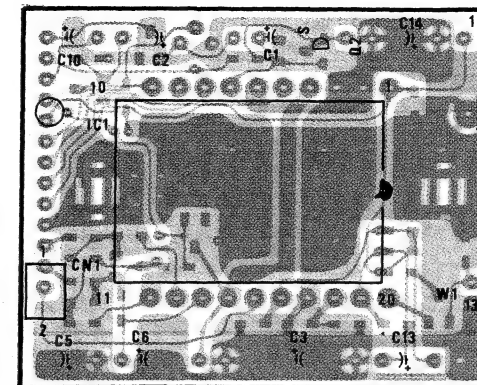


DR-84 -COMPONENT SIDE-
1-629-763-14
BVW-300AP

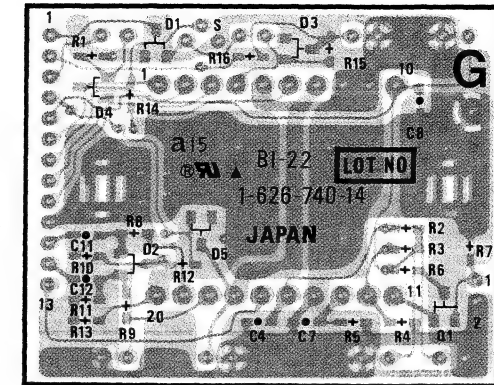


DR-84 -SOLDERING SIDE-
1-629-763-14
BVW-300AP

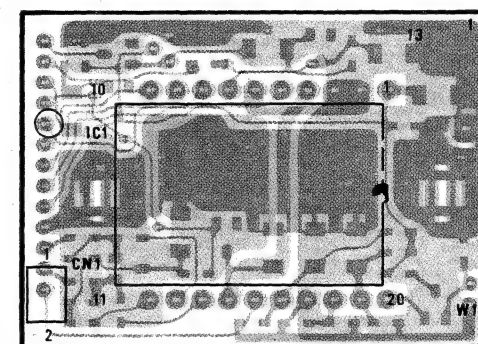
BI-22,23,24;CCD MOUNT
CN-273;CONNECTOR



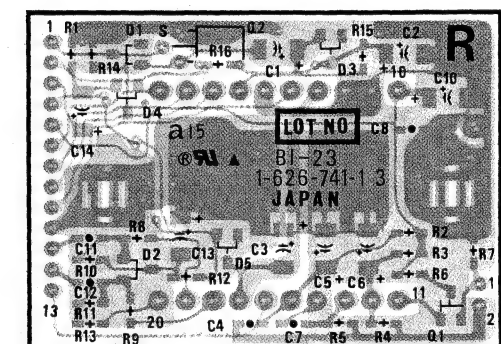
BI-22 -COMPONENT SIDE-
1-626-740-14
BVW-300AP



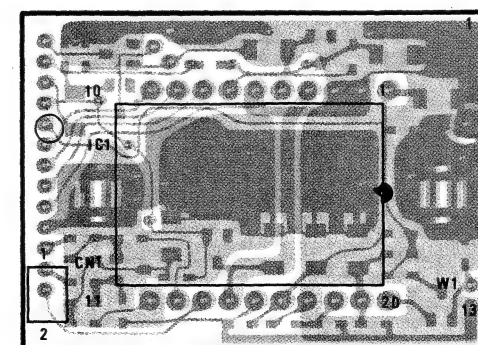
BI-22 -SOLDERING SIDE-
1-626-740-14
BVW-300AP



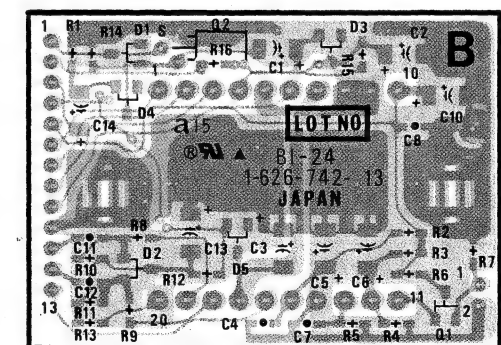
BI-23 -COMPONENT SIDE-
1-626-741-13
BVW-300AP



BI-23 -SOLDERING SIDE-
1-626-741-13
BVW-300AP

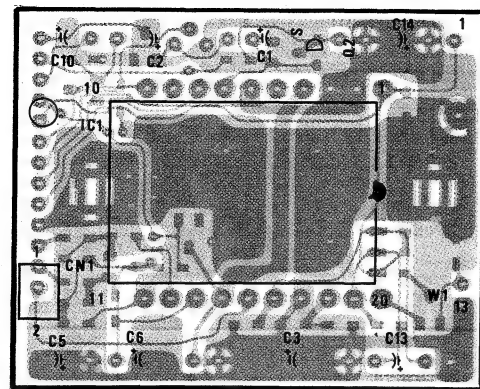


BI-24 -COMPONENT SIDE-
1-626-742-13
BVW-300AP

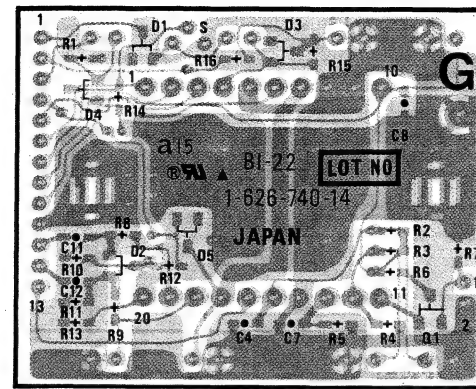


BI-24 -SOLDERING SIDE-
1-626-742-13
BVW-300AP

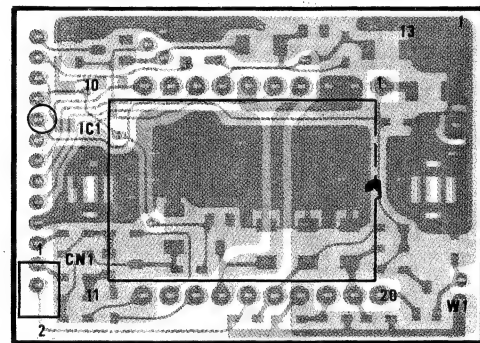
BI-22,23,24;CCD MOUNT
CN-273;CONNECTOR



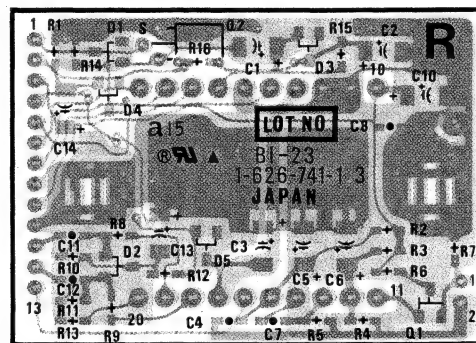
BI-22 -COMPONENT SIDE-
1-626-740-14
BVW-300AP



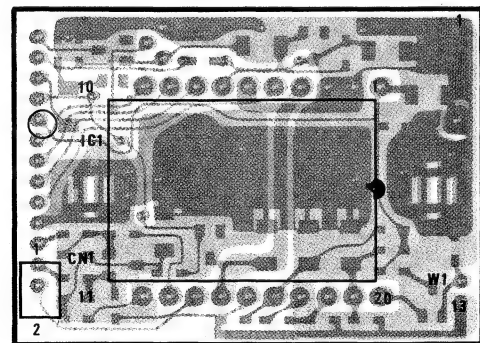
BI-22 -SOLDERING SIDE-
1-626-740-14
BVW-300AP



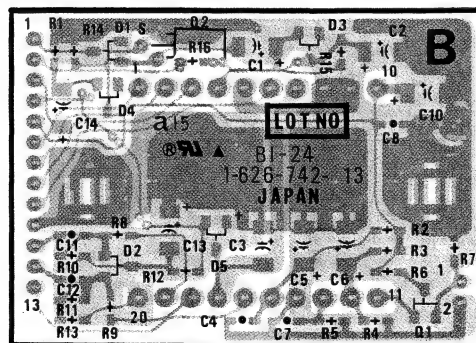
BI-23 -COMPONENT SIDE-
1-626-741-13
BVW-300AP



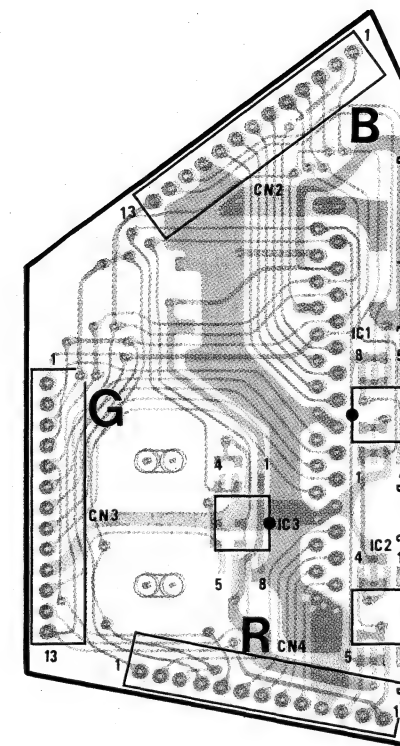
BI-23 -SOLDERING SIDE-
1-626-741-13
BVW-300AP



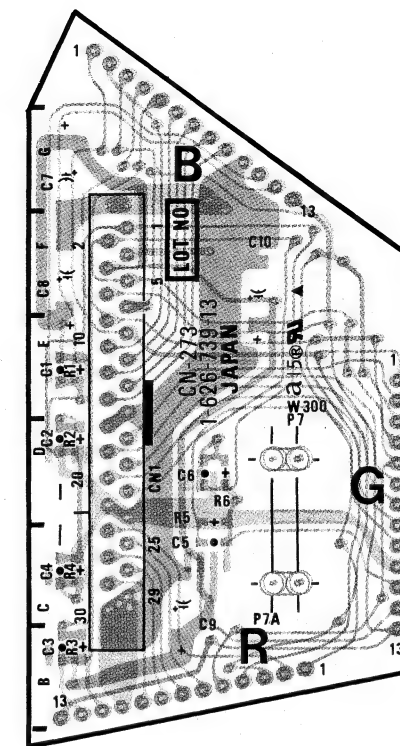
BI-24 -COMPONENT SIDE-
1-626-742-13
BVW-300AP



BI-24 -SOLDERING SIDE-
1-626-742-13
BVW-300AP



CN-273 -COMPONENT SIDE-
1-626-739-13
BVW-300AP



CN-273 -SOLDERING SIDE-
1-626-739-13
BVW-300AP

PA-101:CCD PRE-AMP

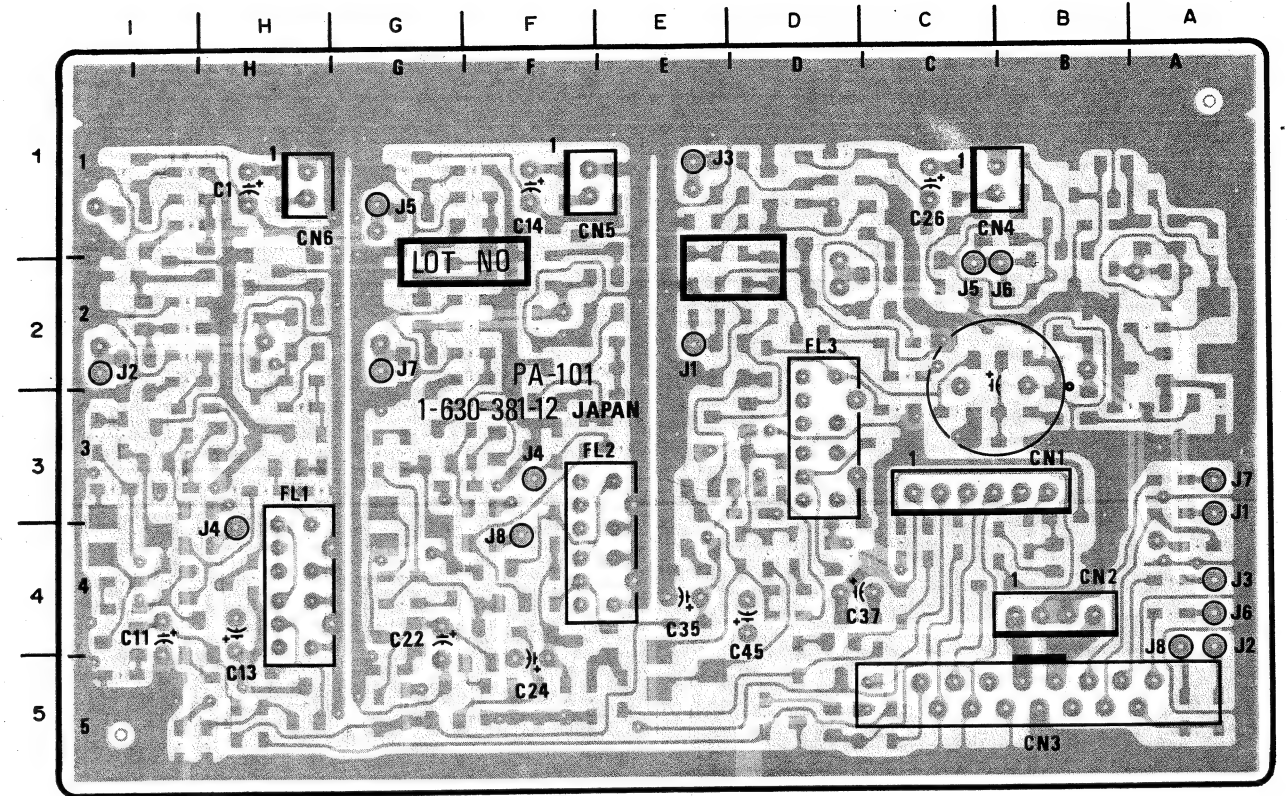
S/N; 41954 through 43999

CN1	B-3	Q43	E-2
CN2	B-4	Q44	E-3
CN3	B-5	Q45	E-3
CN4	C-1	Q46	E-3
CN5	F-1	Q47	E-3
CN6	H-1	Q48	C-4
		Q49	A-3
FL1	H-3	Q50	B-3
FL2	F-3	Q51	B-2
FL3	D-2	Q52	D-1
		Q53	C-2
Q1	I-1	Q54	D-2
Q2	I-1	Q55	B-4
Q3	I-2	Q56	D-5
Q4	I-2	Q57	D-5
Q5	I-2		
Q6	H-3	RV1	I-3
Q7	G-2	RV2	G-3
Q8	G-2	RV3	E-5
Q9	H-3		
Q10	H-4		
Q11	H-4		
Q12	I-3		
Q13	I-4		
Q14	H-4		
Q15	H-5		
Q16	G-1		
Q17	G-1		
Q18	G-2		
Q19	G-2		
Q20	G-2		
Q21	F-3		
Q22	E-1		
Q23	E-2		
Q24	F-2		
Q25	F-4		
Q26	G-4		
Q27	G-3		
Q28	G-4		
Q29	F-3		
Q30	E-4		
Q31	G-5		
Q32	C-2		
Q33	B-1		
Q34	B-2		
Q35	B-1		
Q36	A-1		
Q37	A-2		
Q39	D-1		
Q40	D-1		
Q41	D-2		

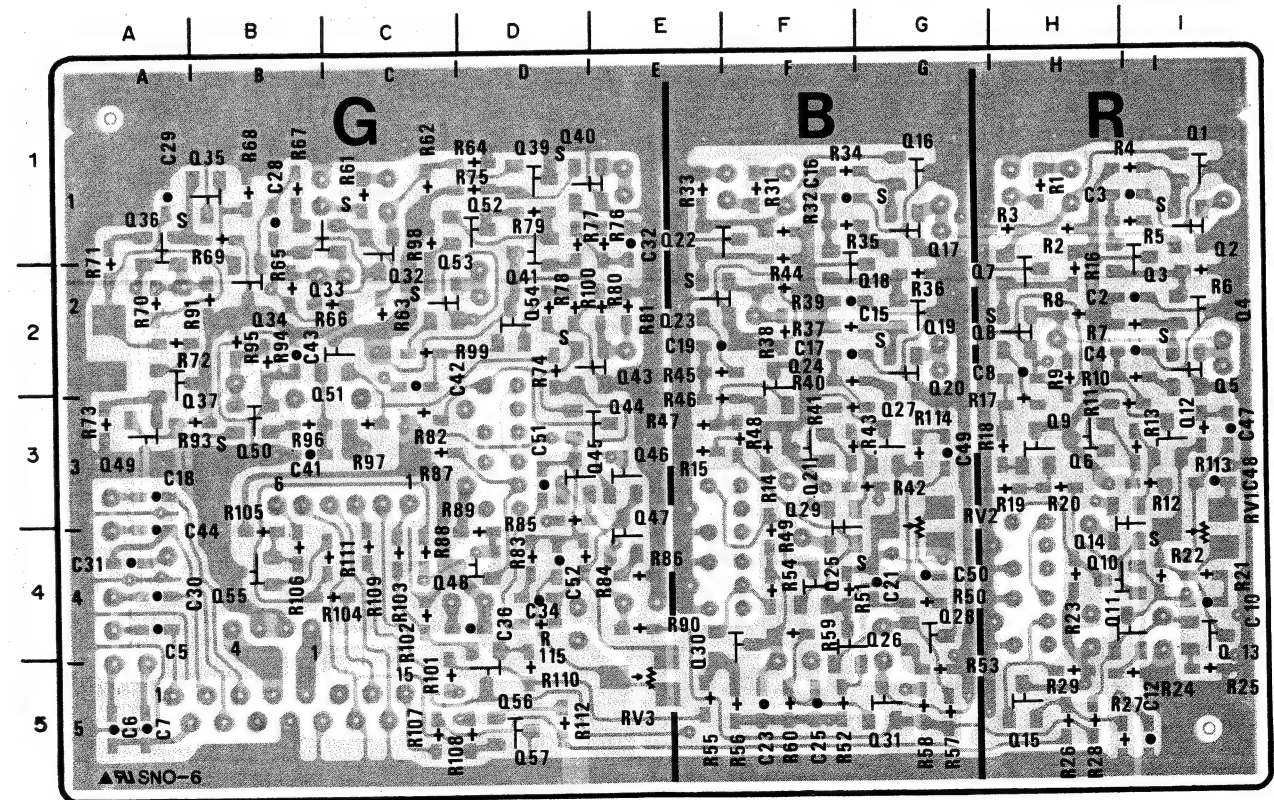
PA-101:CCD PRE-AMP

S / N; 41954 through 43999

CN1	B-3	Q43	E-2
CN2	B-4	Q44	E-3
CN3	B-5	Q45	E-3
CN4	C-1	Q46	E-3
CN5	F-1	Q47	E-3
CN6	H-1	Q48	C-4
		Q49	A-3
FL1	H-3	Q50	B-3
FL2	F-3	Q51	B-2
FL3	D-2	Q52	D-1
		Q53	C-2
Q1	I-1	Q54	D-2
Q2	I-1	Q55	B-4
Q3	I-2	Q56	D-5
Q4	I-2	Q57	D-5
Q5	I-2		
Q6	H-3	RV1	I-3
Q7	G-2	RV2	G-3
Q8	G-2	RV3	E-5
Q9	H-3		
Q10	H-4		
Q11	H-4		
Q12	I-3		
Q13	I-4		
Q14	H-4		
Q15	H-5		
Q16	G-1		
Q17	G-1		
Q18	G-2		
Q19	G-2		
Q20	G-2		
Q21	F-3		
Q22	E-1		
Q23	E-2		
Q24	F-2		
Q25	F-4		
Q26	G-4		
Q27	G-3		
Q28	G-4		
Q29	F-3		
Q30	E-4		
Q31	G-5		
Q32	C-2		
Q33	B-1		
Q34	B-2		
Q35	B-1		
Q36	A-1		
Q37	A-2		
Q39	D-1		
Q40	D-1		
Q41	D-2		

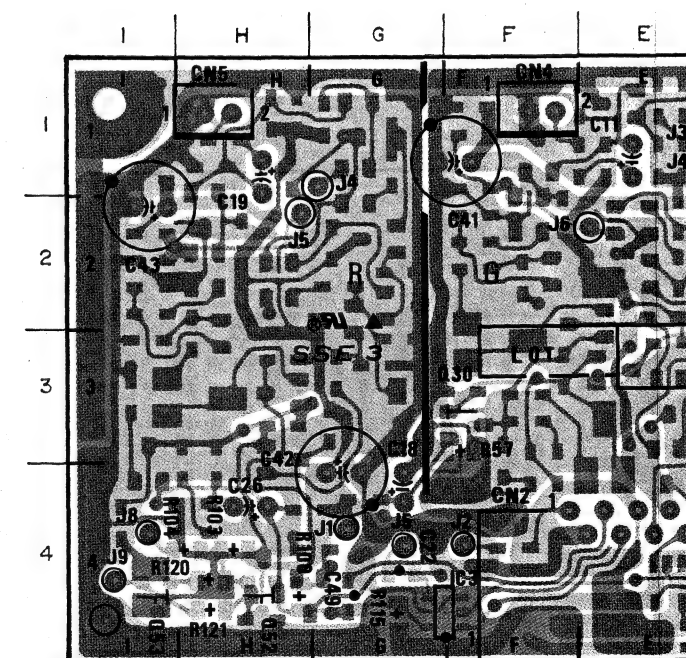
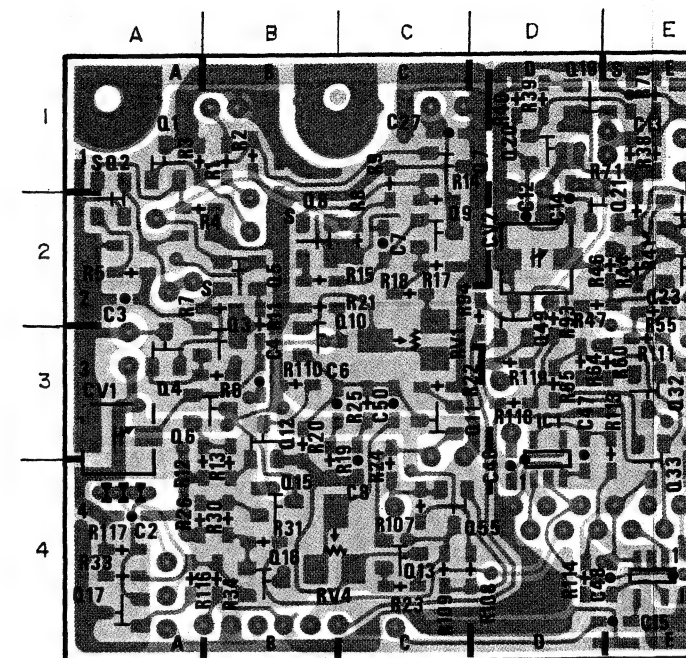


PA-101 -COMPONENT SIDE-
1-630-381-12
BVW-300AP



PA-101 -SOLDERING SIDE-
1-630-381-12
BVW-300AP

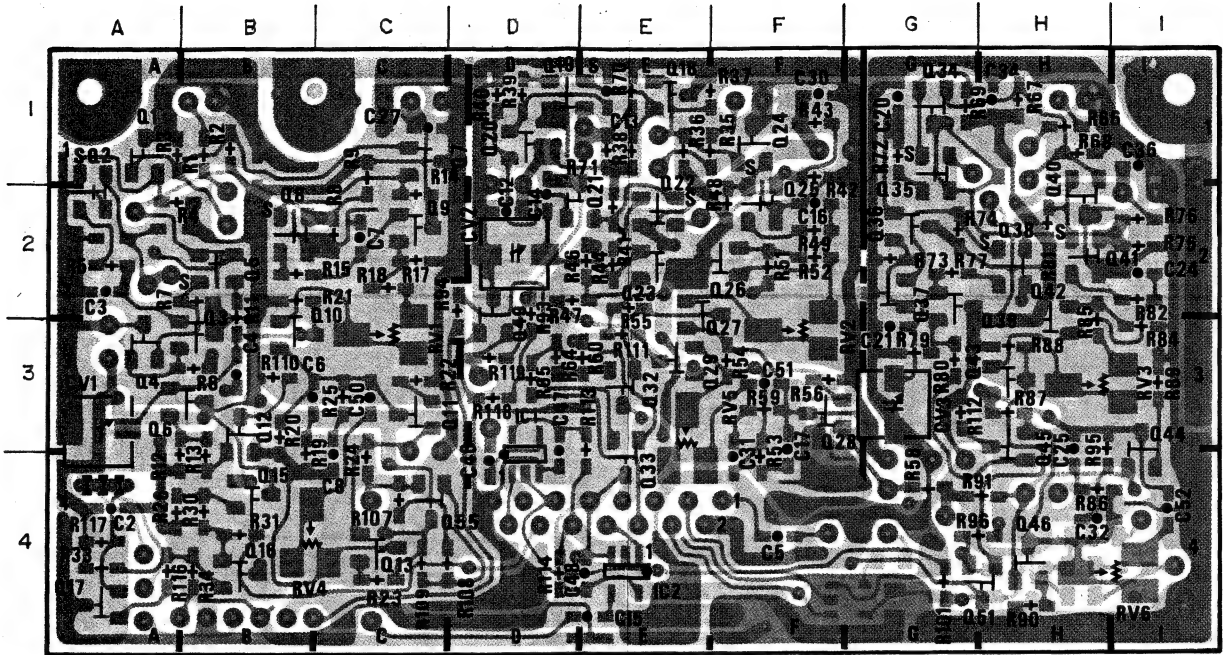
CN1	A-4	Q32	E-3
CN2	F-4	Q33	E-4
CN3	B-1	Q34	G-1
CN4	F-1	Q35	G-2
CN5	H-1	Q36	G-2
CN10	A-4	Q37	G-2
		Q38	H-2
CV1	A-3	Q39	G-3
CV2	D-2	Q40	H-1
CV3	G-3	Q41	H-2
		Q42	H-2
IC1	D-3	Q43	G-3
IC2	E-4	Q44	I-3
IC3	F-4	Q45	H-3
		Q46	H-4
Q1	A-1	Q49	D-3
Q2	A-1	Q51	G-4
Q3	B-2	Q52	I-4
Q4	A-3	Q53	I-4
Q5	B-2	Q55	C-3
Q6	A-3		
Q7	D-1	RV1	C-3
Q8	B-2	RV2	F-3
Q9	C-2	RV3	I-3
Q10	C-2	RV4	B-4
Q11	C-3	RV5	E-4
Q12	B-3	RV6	I-4
Q13	C-3		
Q15	B-4		
Q16	B-4		
Q17	A-4		
Q18	E-1		
Q19	D-1		
Q20	D-1		
Q21	E-2		
Q22	E-3		
Q24	F-1		
Q25	F-1		
Q26	F-2		
Q27	F-3		
Q28	F-3		
Q29	E-3		
Q30	F-3		



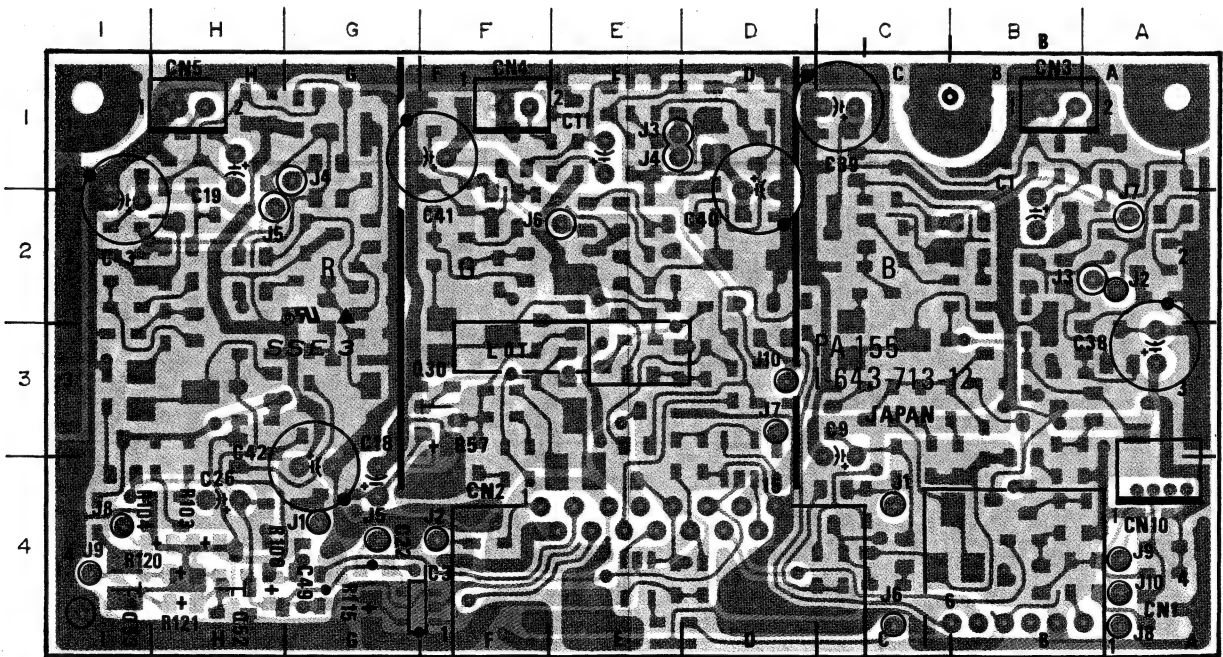
PA-155;CCD PRE-AMP

S/N;44001 and higher

CN1	A-4	Q32	E-3
CN2	F-4	Q33	E-4
CN3	B-1	Q34	G-1
CN4	F-1	Q35	G-2
CN5	H-1	Q36	G-2
CN10	A-4	Q37	G-2
		Q38	H-2
CV1	A-3	Q39	G-3
CV2	D-2	Q40	H-1
CV3	G-3	Q41	H-2
		Q42	H-2
IC1	D-3	Q43	G-3
IC2	E-4	Q44	I-3
IC3	F-4	Q45	H-3
		Q46	H-4
		Q49	D-3
Q1	A-1	Q51	G-4
Q2	A-1	Q52	I-4
Q3	B-2	Q53	I-4
Q4	A-3	Q55	C-3
Q5	B-2		
Q6	A-3		
Q7	D-1	RV1	C-3
Q8	B-2	RV2	F-3
Q9	C-2	RV3	I-3
Q10	C-2	RV4	B-4
Q11	C-3	RV5	E-4
Q12	B-3	RV6	I-4
Q13	C-3		
Q15	B-4		
Q16	B-4		
Q17	A-4		
Q18	E-1		
Q19	D-1		
Q20	D-1		
Q21	E-2		
Q22	E-3		
Q24	F-1		
Q25	F-1		
Q26	F-2		
Q27	F-3		
Q28	F-3		
Q29	E-3		
Q30	F-3		

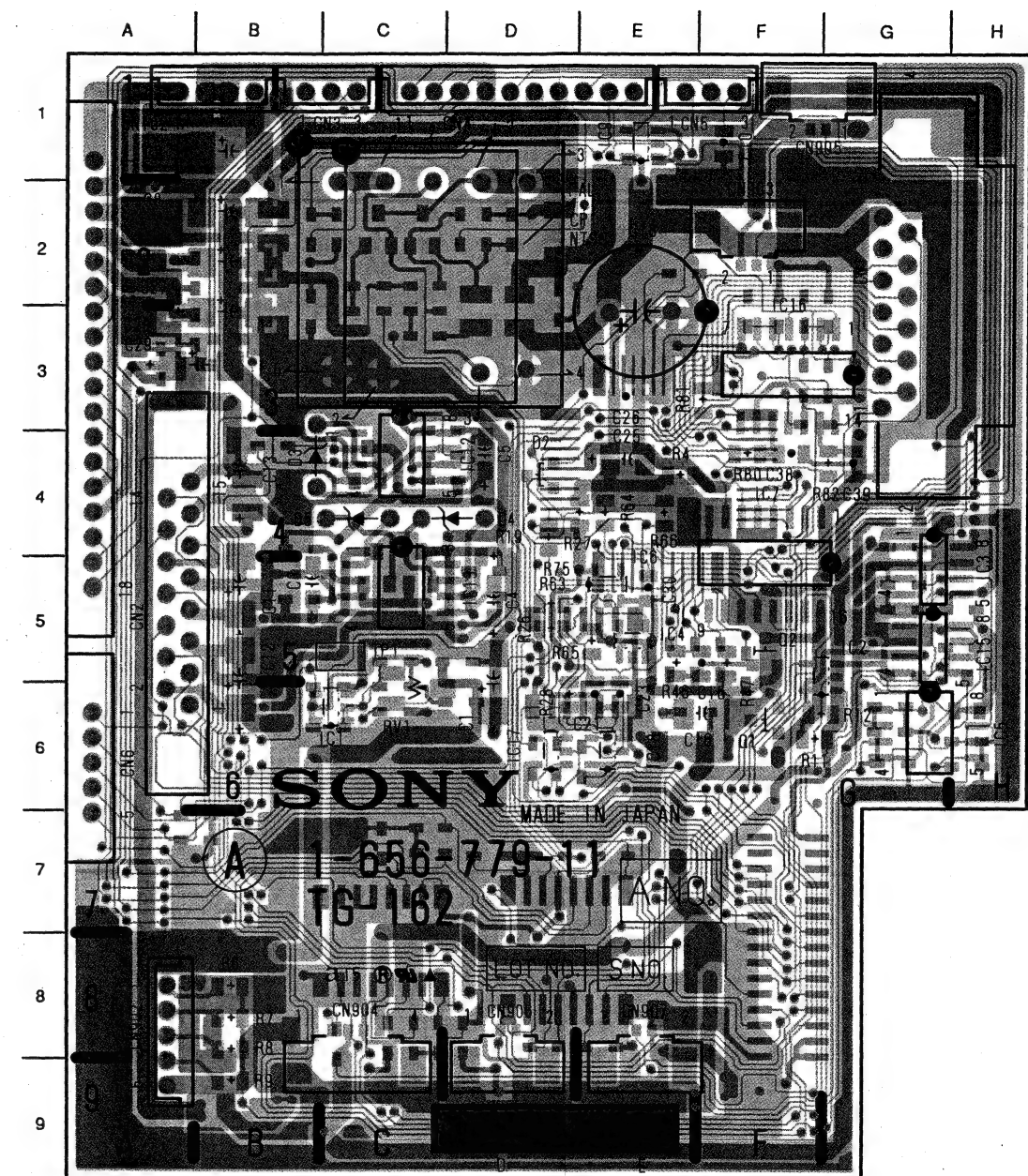


PA-155 -COMPONENT SIDE-
1-643-713-12
BVW-300AP
(BKW-301P)



PA-155 -SOLDERING SIDE-
1-643-713-12
BVW-300AP
(BKW-301P)

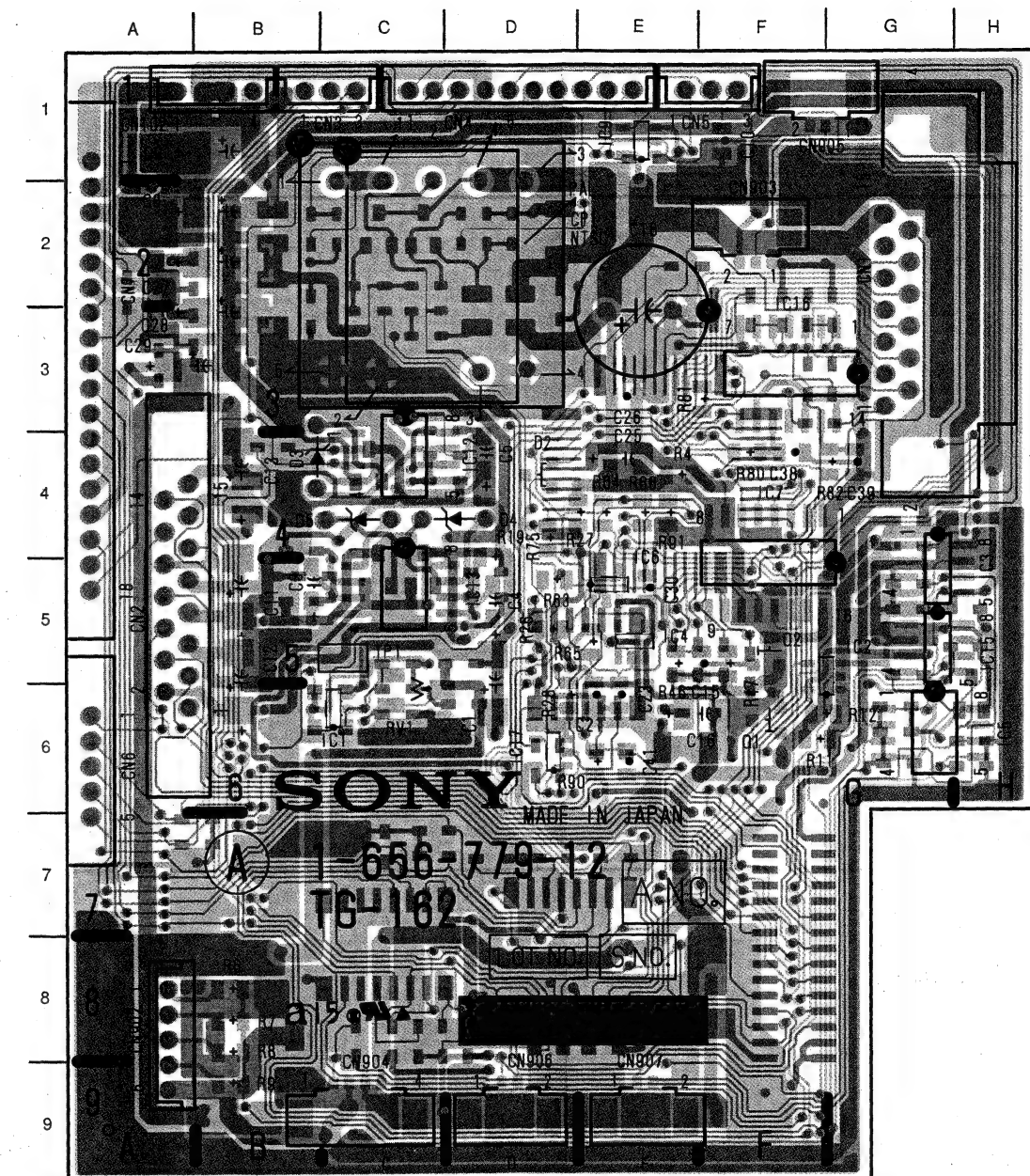
CN1	G-2	Q1	F-6
CN2	A-5	Q2	F-5
CN3	B-1	Q3	C-4
CN4	C-1	Q4	C-5
CN5	E-1	Q5	C-5
CN6	A-6	Q6	C-2
CN7	A-2	Q7	C-2
CN102	A-1		
CN901	F-8	RV1	C-6
CN902	A-8		
CN903	F-2	TP1	C-5
CN904	C-8		
CN905	F-1		
CN906	D-8		
CN907	E-8		
CP1	D-2		
D1	H-6		
D2	D-4		
D3	B-4		
D4	D-4		
D5	B-4		
IC1	C-6		
IC2	G-5		
IC3	H-5		
IC4	E-5		
IC5	G-6		
IC6	E-5		
IC7	F-4		
IC8	C-8		
IC9	E-1		
IC10	D-8		
IC11	D-4		
IC12	D-4		
IC13	D-5		
IC14	D-5		
IC15	H-5		
IC16	F-3		
IC17	D-6		
IC18	E-6		



TG-162P -COMPONENT SIDE-

1-656-779-11
BVW-300AP
(BKW-301P)

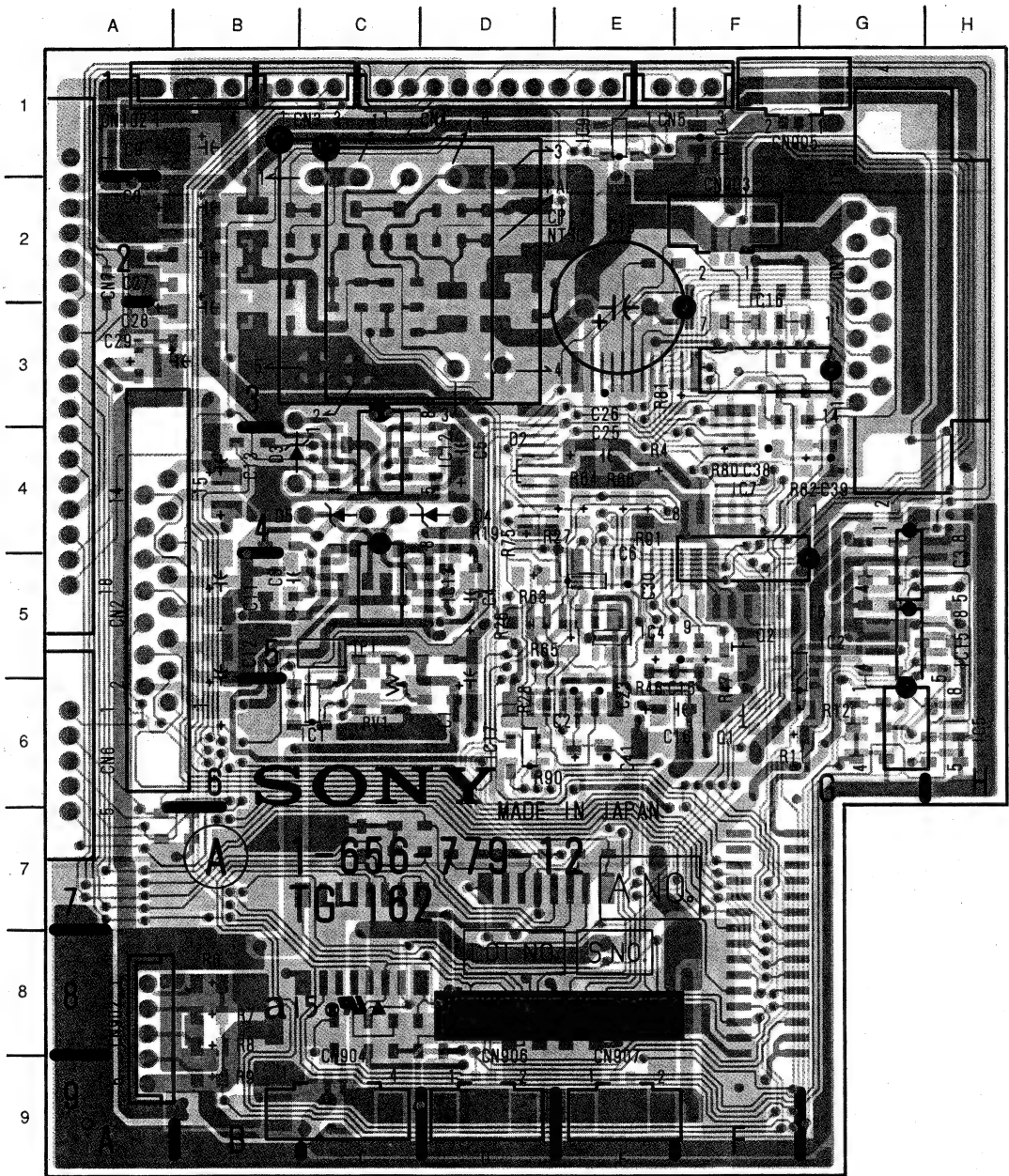
CN1	G-2	Q1	F-6
CN2	A-5	Q2	F-5
CN3	B-1	Q3	C-4
CN4	C-1	Q4	C-5
CN5	E-1	Q5	C-5
CN6	A-6	Q6	C-2
CN7	A-2	Q7	C-2
CN102	A-1		
CN901	F-8	RV1	C-6
CN902	A-8		
CN903	F-2	TP1	C-5
CN904	C-8		
CN905	F-1		
CN906	D-8		
CN907	E-8		
CP1	D-2		
D1	H-6		
D2	D-4		
D3	B-4		
D4	D-4		
D5	B-4		
IC1	C-6		
IC2	G-5		
IC3	H-5		
IC4	E-5		
IC5	H-6		
IC6	F-4		
IC7	F-4		
IC8	C-8		
IC9	E-1		
IC10	E-8		
IC11	D-4		
IC12	D-4		
IC13	D-5		
IC14	D-5		
IC15	H-5		
IC16	F-2		
IC17	D-6		



TG-162P -COMPONENT SIDE-

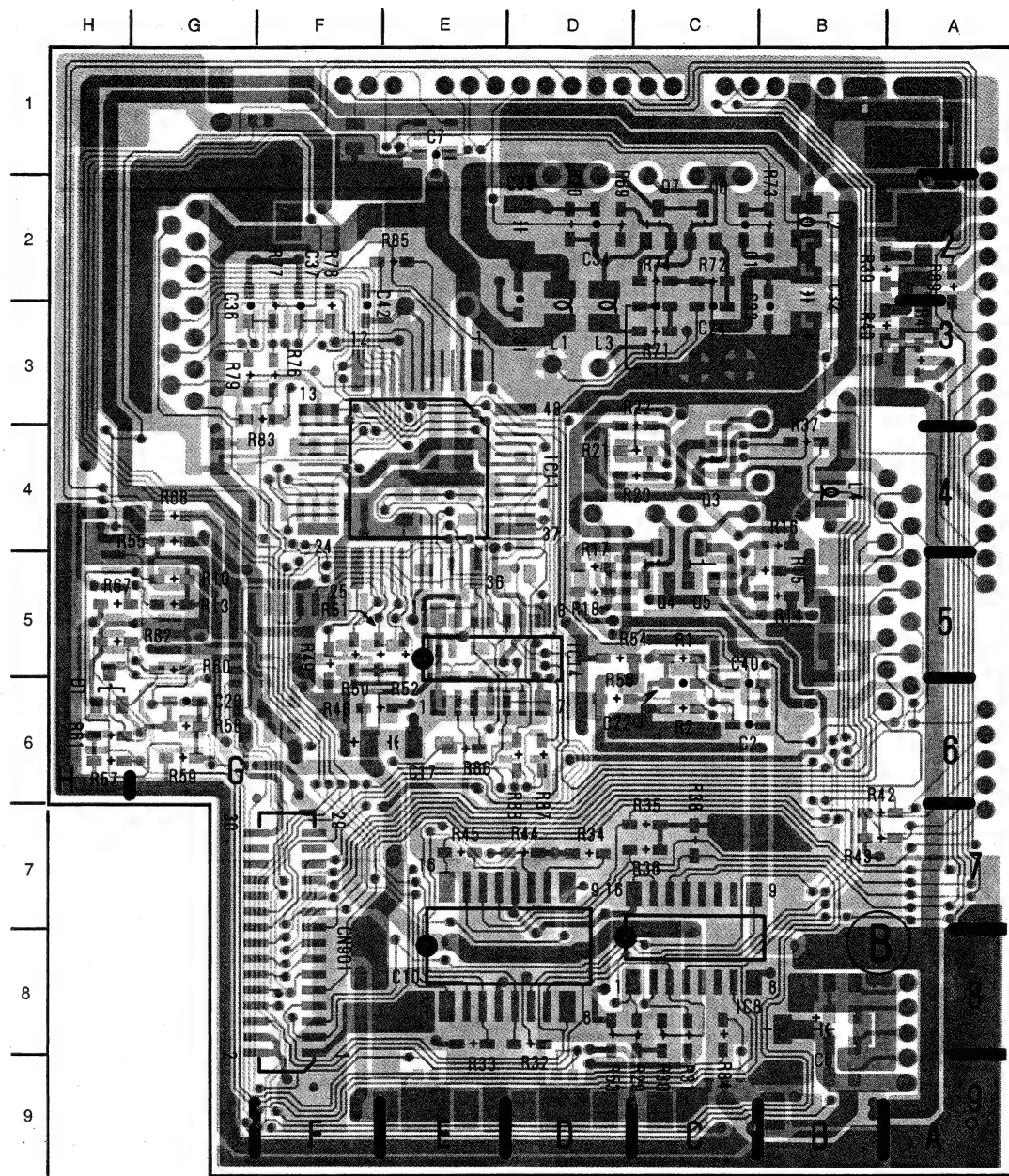
1-656-779-12
BVW-300AP
(BKW-301P)

TG-162P;TIMING GENERATOR S/N;44161 and higher



TG-162P -COMPONENT SIDE-
1-656-779-12
BVW-300AP
(BKW-301P)

12-14-1(b)



TG-162P -SOLDERING SIDE-
1-656-779-12
BVW-300AP
(BKW-301P)

12-15-1(b)

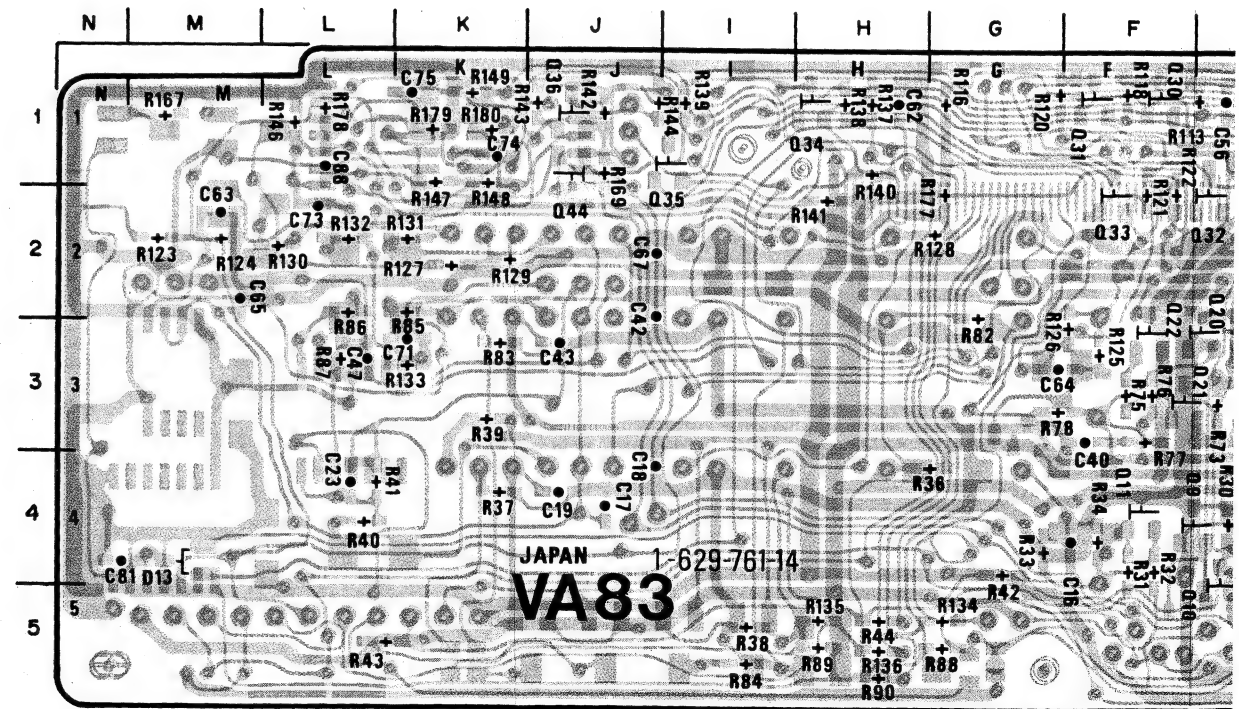
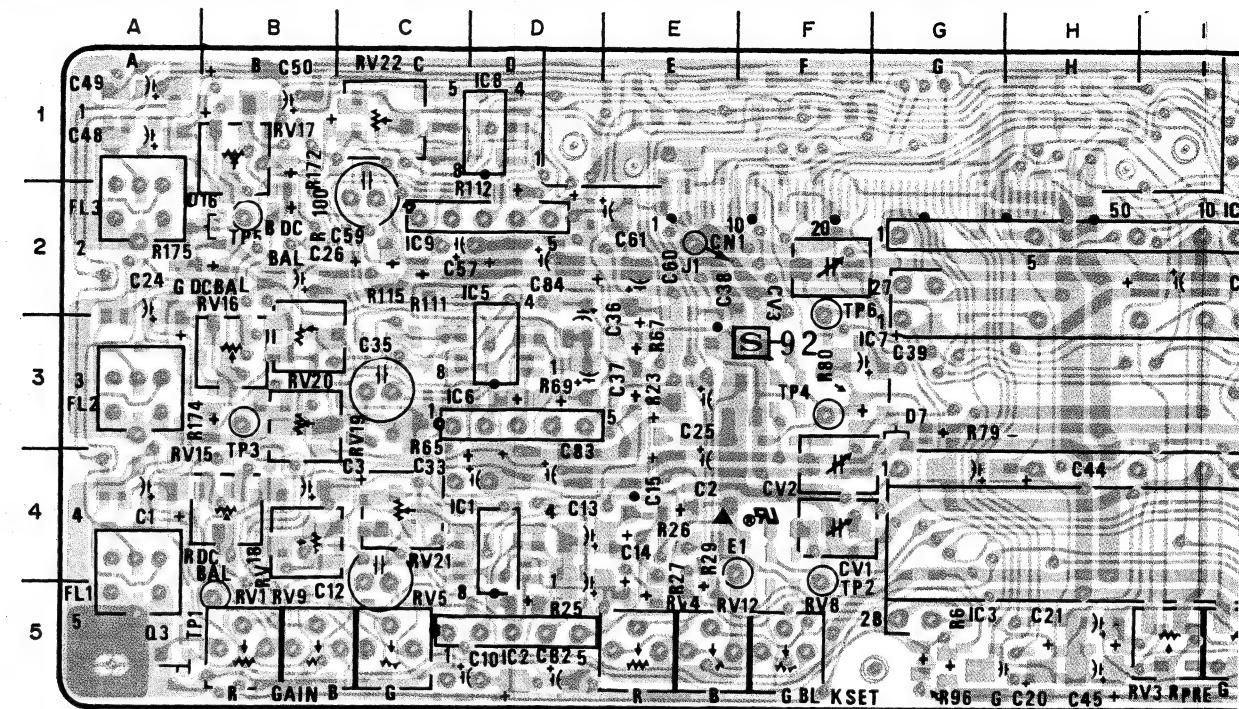
VA-83

VA-83

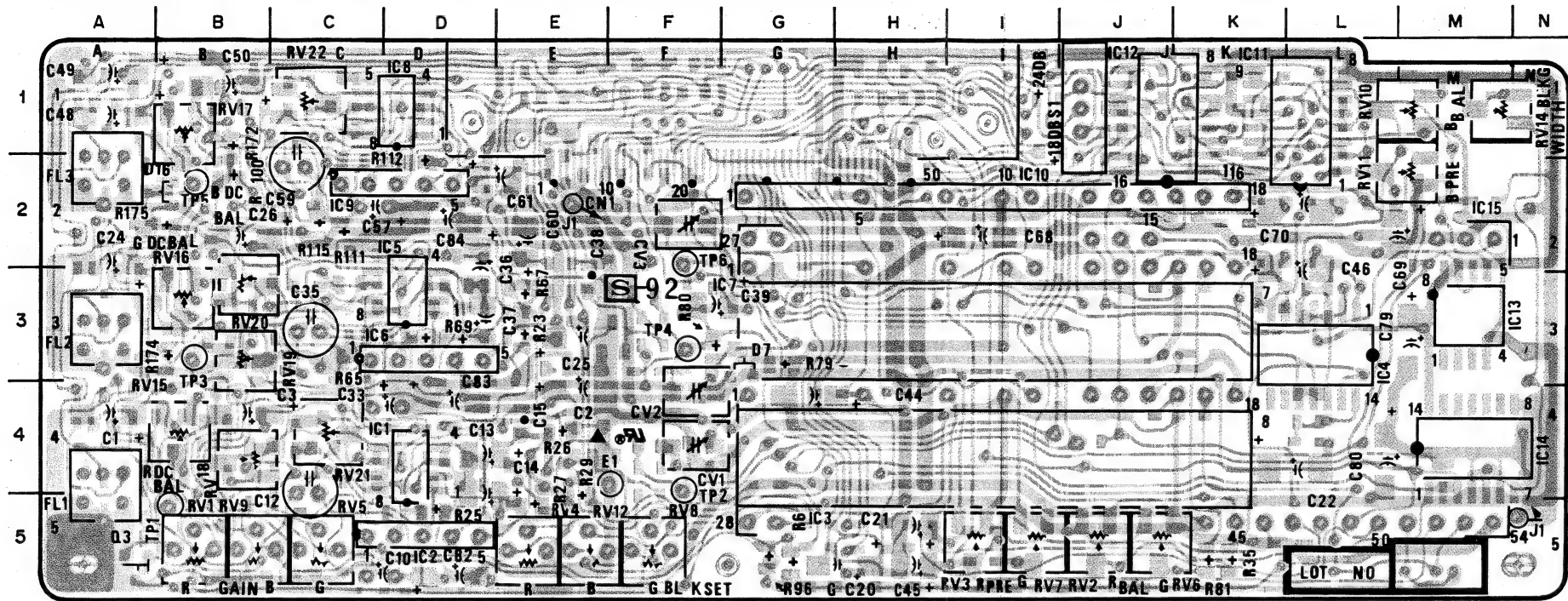
CN1	E-2	Q12	A-2	TP2	F-5
CV1	F-4	Q13	B-3	TP3	B-3
CV2	F-4	Q14	B-3	TP4	F-3
CV3	F-2	Q15	B-2	TP5	B-2
		Q16	C-2	TP6	F-2
		Q17	C-3		
D2	D-4	Q18	D-3		
D3	E-5	Q19	E-3		
D5	D-3	Q20	E-3		
D6	E-3	Q21	F-3		
D7	G-3	Q22	F-3		
D9	D-1	Q23	A-1		
D10	E-2	Q24	B-1		
D13	M-4	Q25	B-2		
D14	B-4	Q26	B-1		
D15	B-3	Q27	C-1		
D16	B-2	Q28	C-1		
		Q29	E-1		
E1	F-4	Q30	F-1		
		Q31	F-1		
FL1	A-5	Q32	E-2		
FL2	A-3	Q33	F-2		
FL3	A-2	Q34	H-1		
		Q35	I-1		
IC1	D-4	Q36	J-1		
IC2	D-5	Q44	J-1		
IC3	G-4	Q45	B-1		
IC4	L-3				
IC5	D-2	RV1	B-5		
IC6	C-3	RV2	J-5		
IC7	G-3	RV3	I-5		
IC8	D-1	RV4	E-5		
IC9	C-2	RV5	C-5		
IC10	I-2	RV6	J-5		
IC11	K-1	RV7	I-5		
IC12	J-1	RV8	F-5		
IC13	M-3	RV9	B-5		
IC14	M-4	RV10	L-1		
IC15	M-2	RV11	L-2		
		RV12	F-5		
		RV14	N-1		
Q1	A-4	RV15	A-4		
Q2	B-4	RV16	B-2		
Q3	A-5	RV17	B-1		
Q4	B-4	RV18	B-4		
Q5	C-4	RV19	B-3		
Q6	C-4	RV20	B-3		
Q7	D-4				
Q8	E-4				
Q9	E-4	S1	I-1		
Q10	F-5				
Q11	F-4	TP1	B-5		

VA-83;VIDEO AMP,BLACK SET,SHADING COMPE

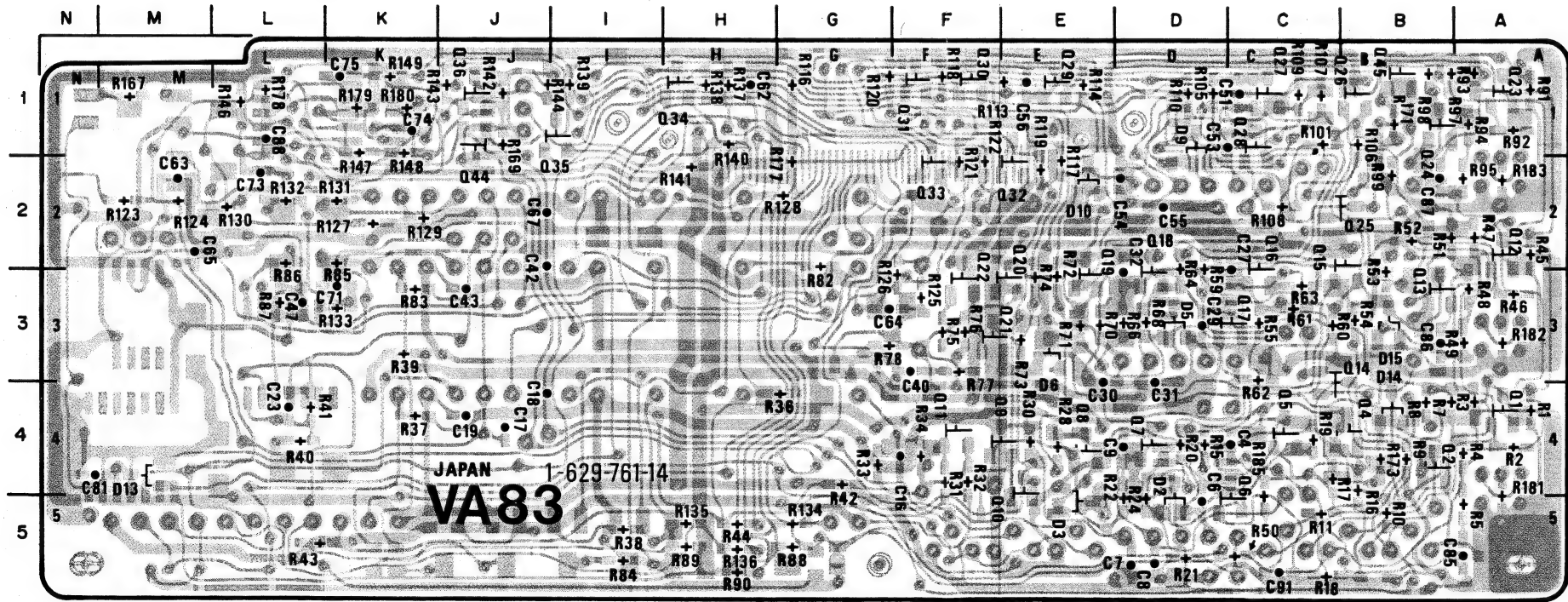
S/N;41954 through 43999



VA-83;VIDEO AMP,BLACK SET,SHADING COMPE S/N;41954 through 43999



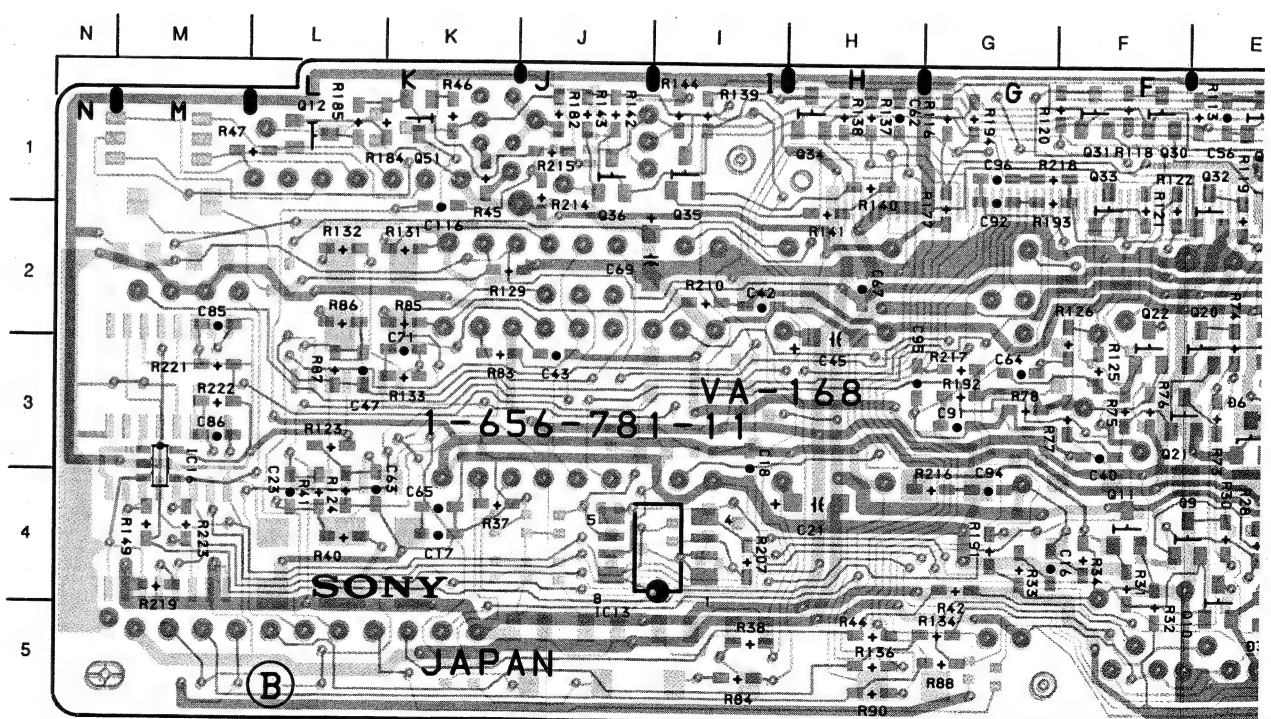
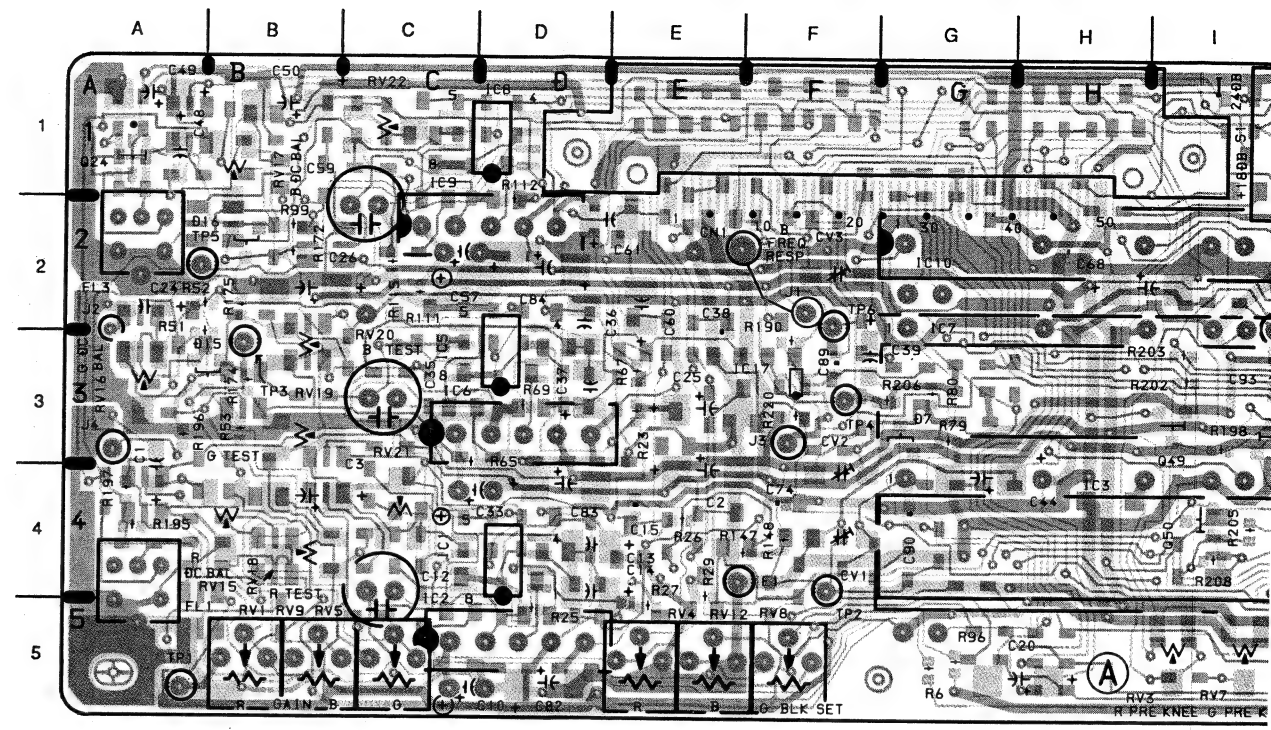
VA-83 -COMPONENT SIDE-
1-629-761-14
BVW-300AP



VA-83 -SOLDERING SIDE-
1-629-761-14
BVW-300AP

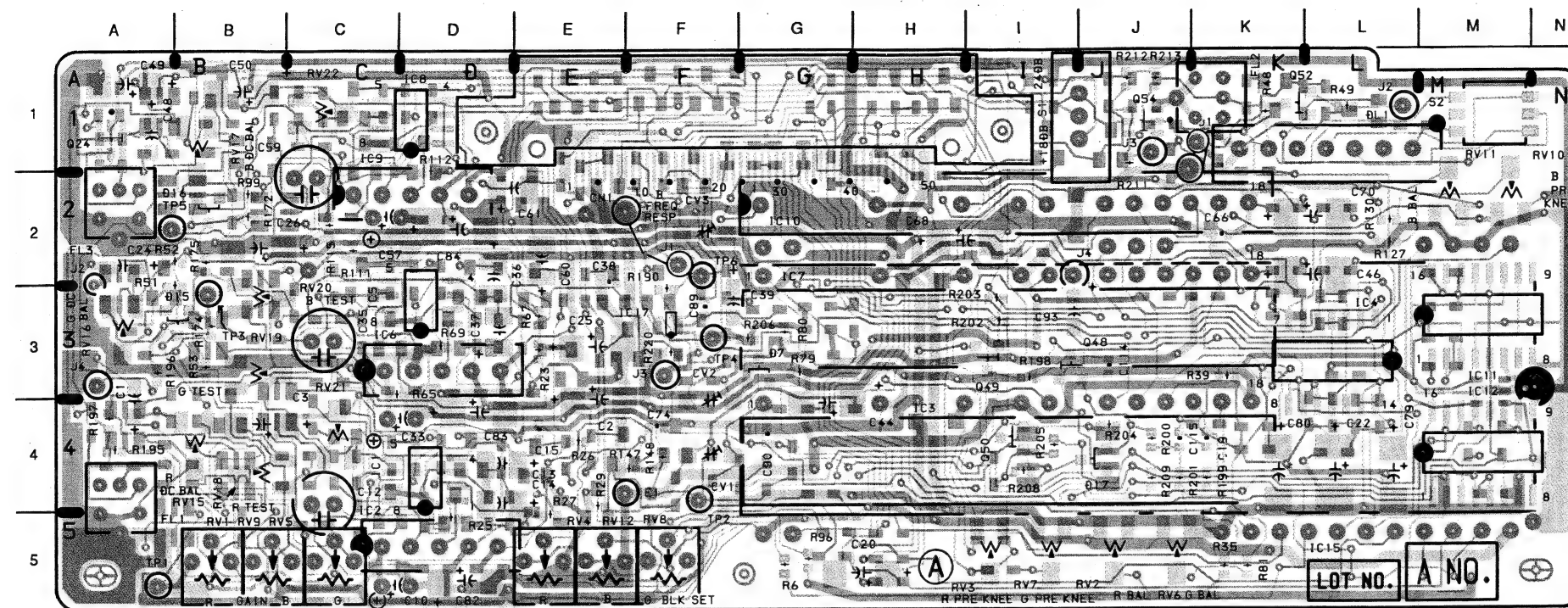
VA-168;VIDEO AMP, BLACK SET, SHADING COMPE S/N;44001 and higher

CN1	E-2	Q1	A-3	RV1	B-5
		Q2	B-4	RV2	J-5
CV1	F-4	Q3	E-5	RV3	I-5
CV2	F-3	Q4	B-3	RV4	E-5
CV3	F-2	Q5	C-4	RV5	B-5
		Q6	C-4	RV6	J-5
DL1	L-1	Q7	D-4	RV7	I-5
		Q8	E-4	RV8	F-5
D1	B-1	Q9	E-4	RV9	B-5
D2	D-4	Q10	E-5	RV10	N-1
D3	E-5	Q11	F-4	RV11	M-1
D5	D-3	Q12	L-1	RV12	E-5
D6	E-3	Q13	A-2	RV15	B-4
D7	G-3	Q14	B-3	RV16	A-3
D9	D-1	Q15	B-2	RV17	B-1
D10	E-2	Q16	C-2	RV18	B-4
D14	B-3	Q17	D-3	RV19	B-3
D15	A-3	Q18	D-2	RV20	C-2
D16	B-2	Q19	E-2	RV21	C-3
		Q20	E-2	RV22	C-1
E1	F-4	Q21	F-3		
		Q22	F-2	S1	I-1
FL1	A-5	Q23	A-1	S2	M-1
FL2	K-1	Q24	A-1		
FL3	A-2	Q25	B-2	TP1	A-5
		Q26	A-2	TP2	F-5
IC1	C-4	Q27	C-1	TP3	B-3
IC2	C-4	Q28	C-1	TP4	F-3
IC3	H-4	Q29	E-1	TP5	B-2
IC4	L-3	Q30	F-1	TP6	F-2
IC5	C-3	Q31	F-1		
IC6	C-3	Q32	E-1		
IC7	G-2	Q33	F-1		
IC8	D-1	Q34	H-1		
IC9	C-1	Q35	I-2		
IC10	G-2	Q36	J-2		
IC11	M-3	Q45	B-1		
IC12	M-3	Q51	K-1		
IC15	L-5	Q52	K-1		
IC16	M-3	Q53	A-2		
IC17	F-3	Q54	J-1		



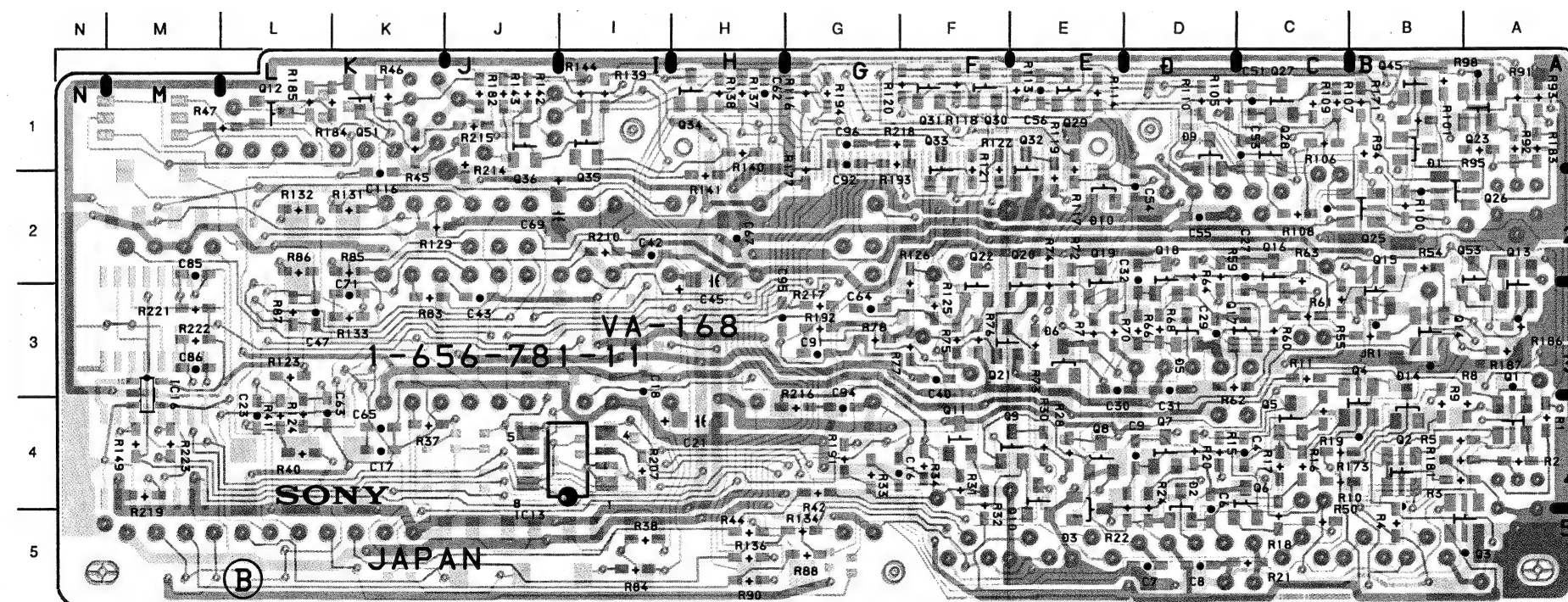
VA-168;VIDEO AMP, BLACK SET, SHADING COMPE

S/N;44001 and higher



VA-168 -COMPONENT SIDE-

1-656-781-11
BVW-300AP
(BKW-301P)

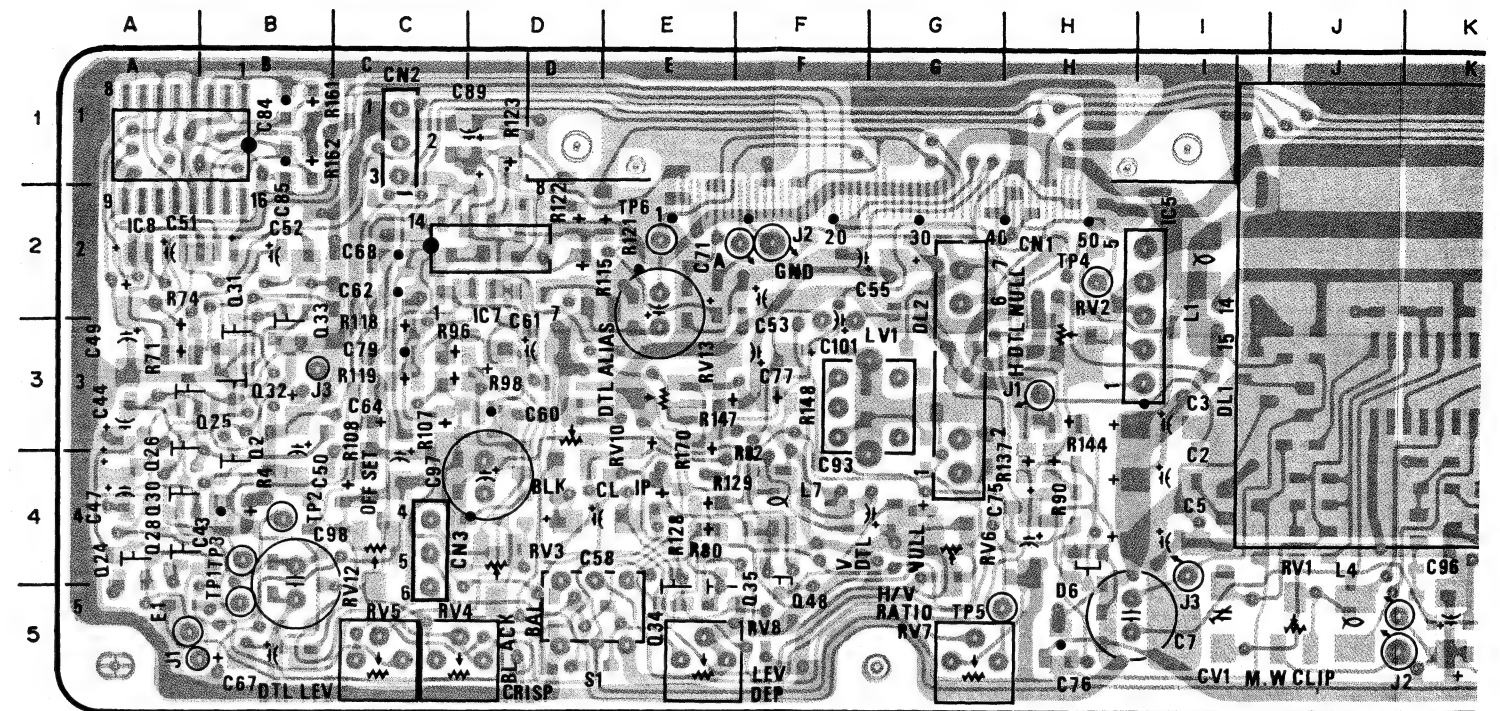


VA-168 -SOLDERING SIDE-

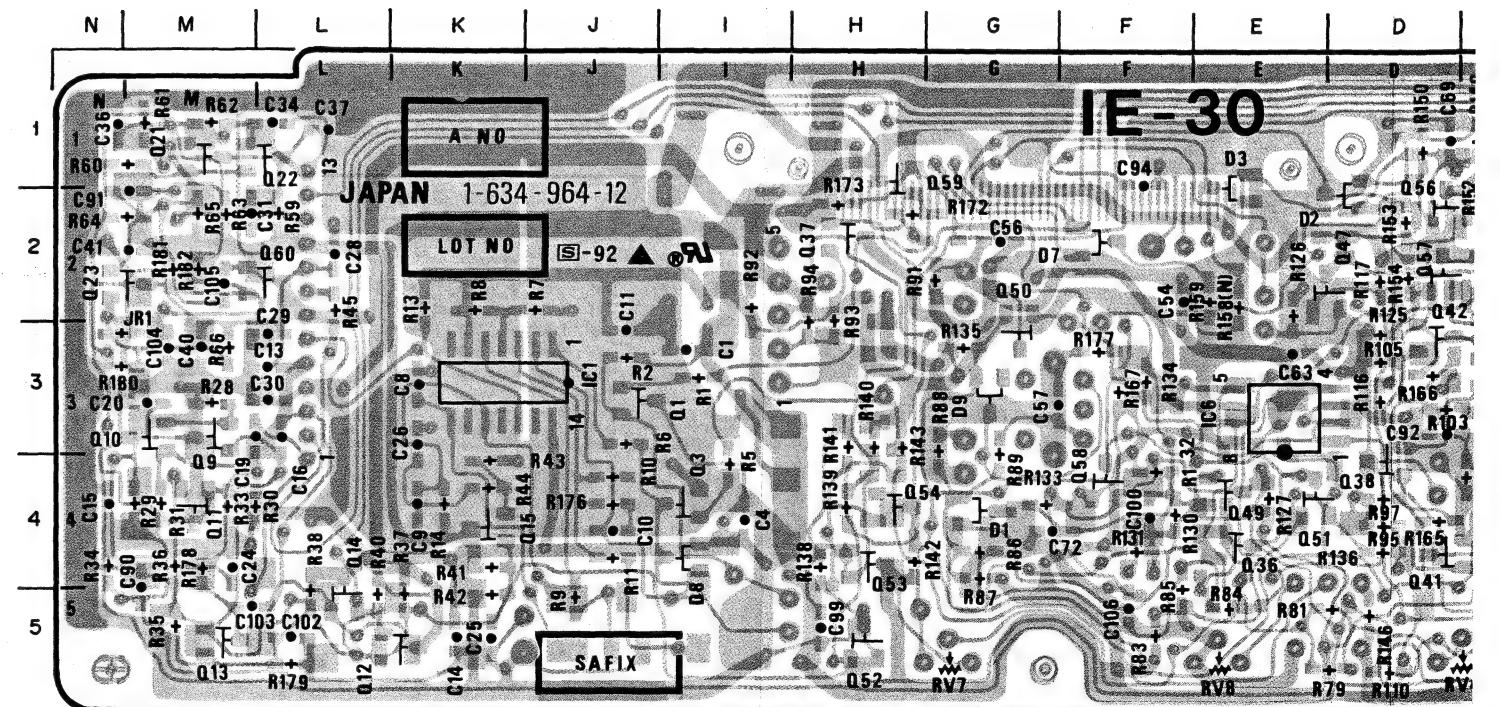
1-656-781-11
BVW-300AP
(BKW-301P)

IE-30AP;IMAGE ENHANCE
IE-31;APERTURE

CN1	H-2	Q34	E-5
		Q35	F-4
CV1	I-5	Q36	E-4
CV2	N-4	Q37	H-2
CV3	N-2	Q38	D-4
		Q41	C-5
DL1	I-3	Q42	D-2
DL2	G-2	Q43	C-3
		Q44	C-3
D1	G-4	Q45	C-3
D2	E-2	Q46	C-2
D3	E-1	Q47	D-2
D4	C-4	Q48	F-5
D5	C-4	Q49	E-4
D6	H-4	Q50	G-2
D7	G-2	Q51	E-4
D8	I-5	Q52	H-5
D9	G-3	Q53	H-4
		Q54	H-4
E1	A-5	Q56	D-1
		Q57	D-2
IC1	J-3	Q58	F-4
IC4	B-3	Q59	G-1
IC5	I-2		
IC6	E-3	RV1	J-4
IC7	D-2	RV2	H-2
IC8	A-2	RV3	C-4
IC9	A-1	RV4	C-5
IC10	A-2	RV5	C-5
		RV6	G-4
LV1	G-3	RV7	G-5
		RV8	F-5
Q1	I-3	RV10	D-4
Q2	B-4	RV12	C-5
Q3	I-4	RV13	E-3
Q9	M-4	RV14	K-4
Q10	N-3		
Q11	M-4	S1	D-5
Q12	L-5		
Q13	M-5	TP1	B-5
Q14	L-4	TP2	B-4
Q15	K-4	TP3	B-4
Q21	M-1	TP4	H-2
Q22	L-1	TP5	G-5
Q23	N-2	TP6	E-2
Q24	A-4		
Q25	B-3		
Q26	A-3		
Q27	A-3		
Q28	A-4		
Q29	A-4		
Q30	A-4		
Q31	B-2		
Q32	B-3		
Q33	B-2		



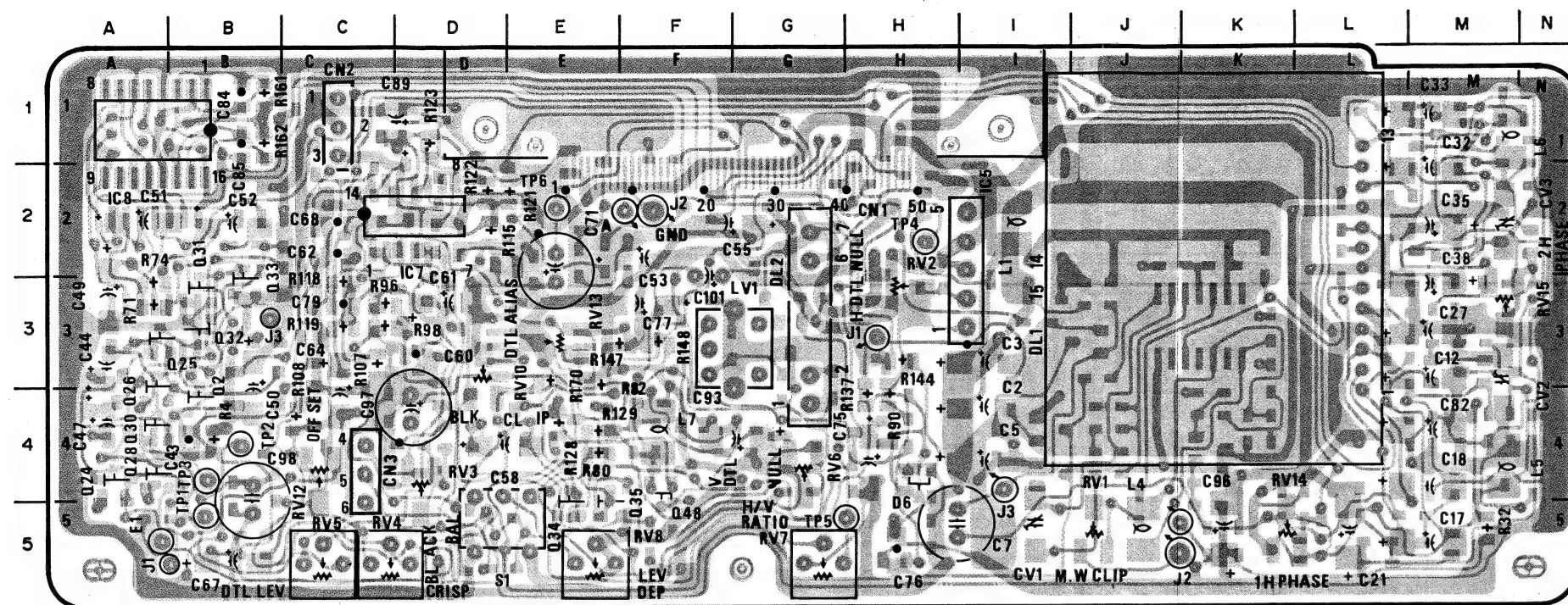
IE-3
1-634-96
BVW-300A



IE-3
1-634-96
BVW-300A

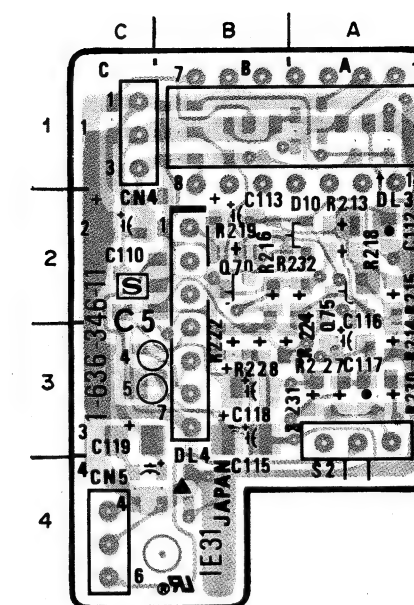
IE-30AP; IMAGE ENHANCE

IE-31; APERTURE



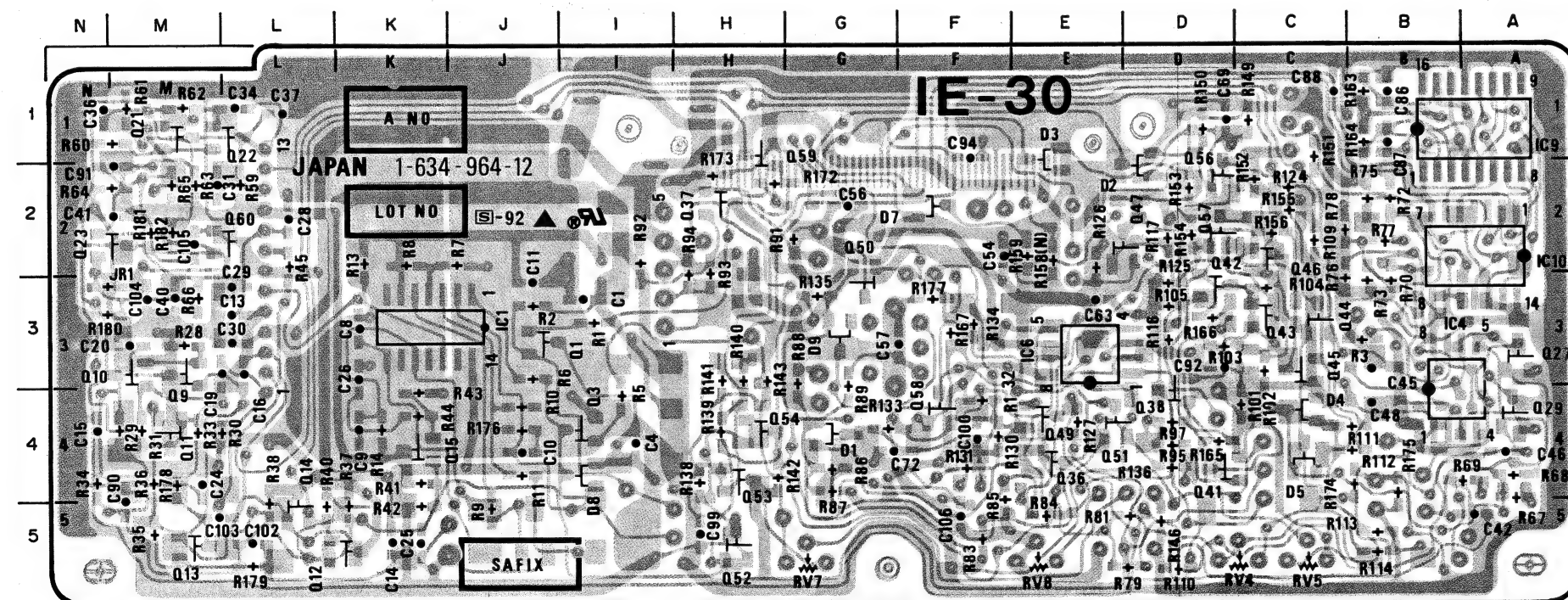
IE-30AP -COMPONENT SIDE-

1-634-964-12
BVW-300AP



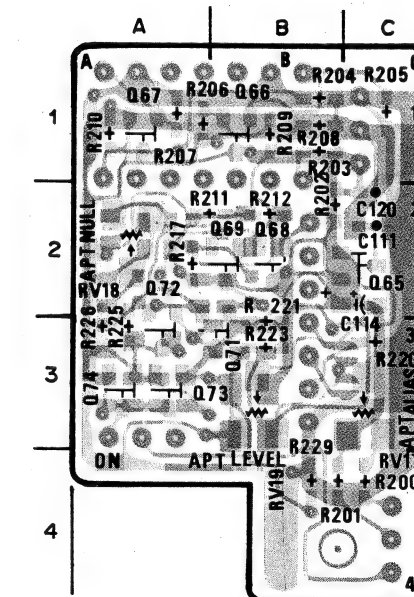
IE-31 -COMPONENT SIDE-

1-636-346-11
BVW-300AP



IE-30AP -SOLDERING SIDE-

1-634-964-12
BVW-300AP



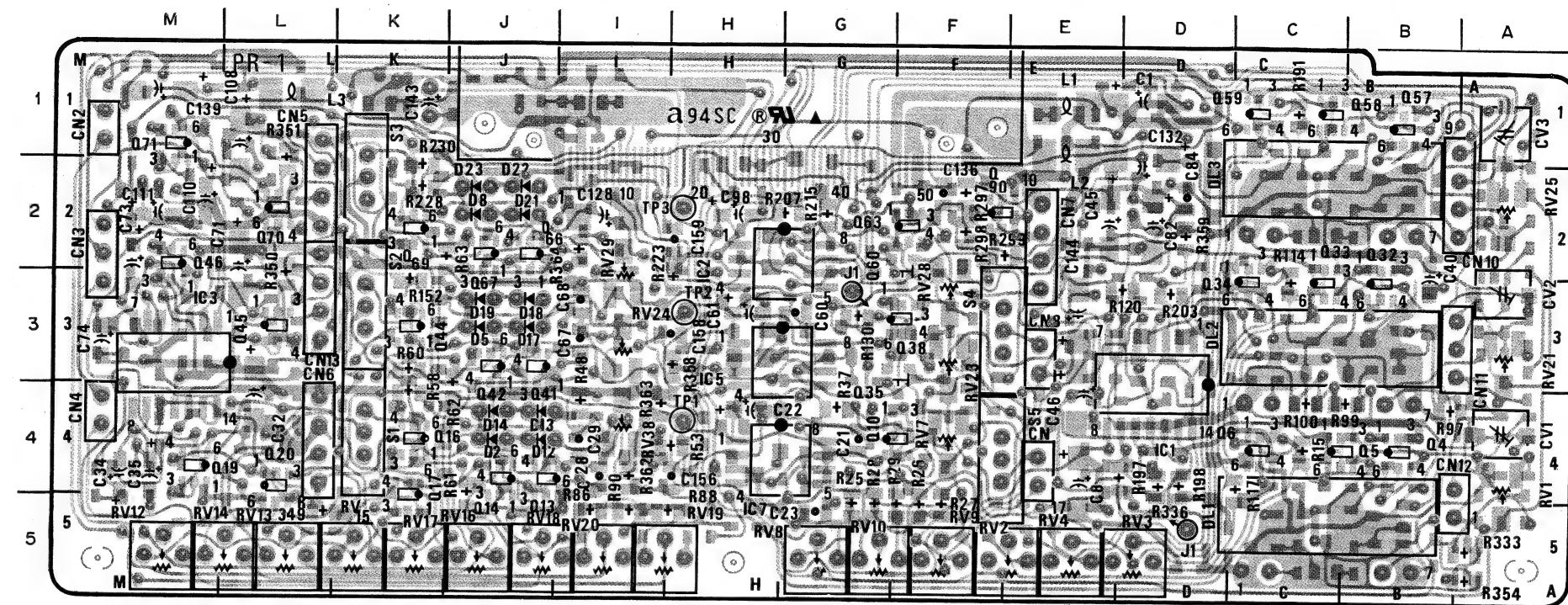
IE-31 -SOLDERING SIDE-

1-636-346-11
BVW-300AP

PR-176,PR-177,PR-178;GAMMA,MASKING,KNEE,SLOPE,W CLIP,DCC

S/N;41954 through 42130

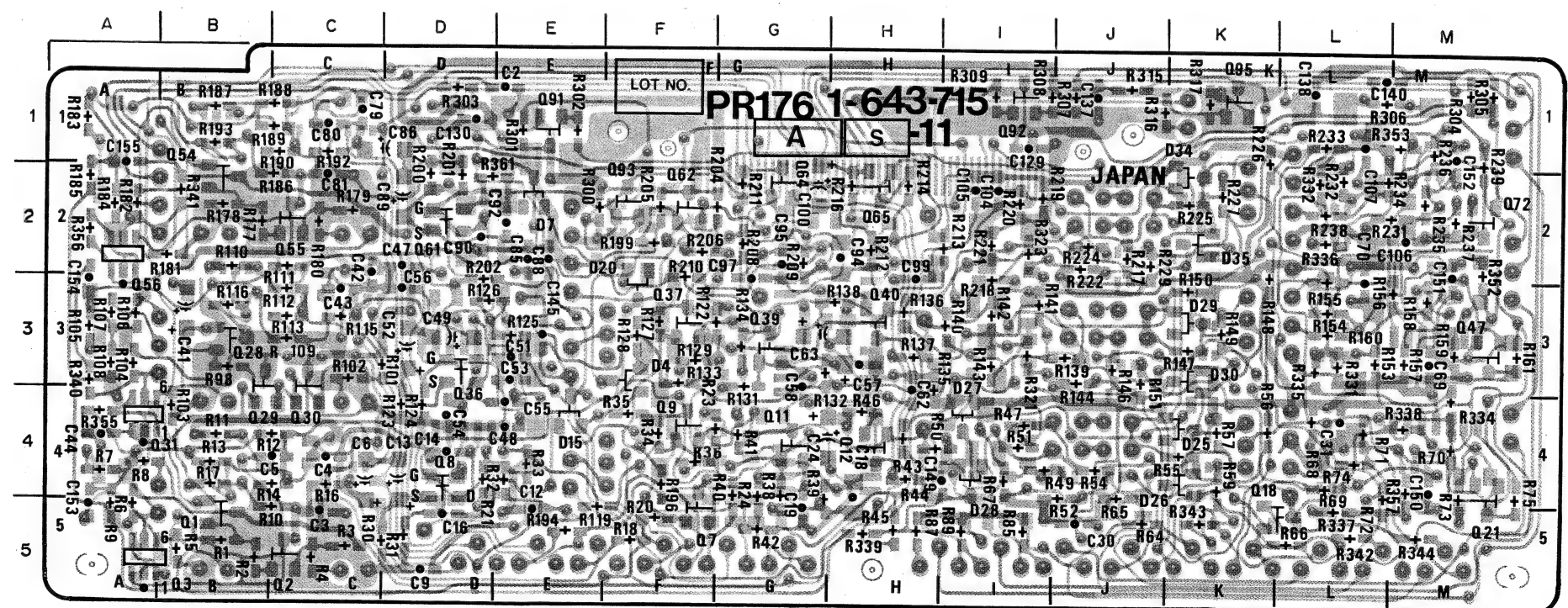
CN2	M-1	RV19	H-5	Q37	F-3
CN3	M-2	RV20	I-5	Q38	F-3
CN4	M-4	RV21	A-3	Q39	G-3
CN5	L-1	RV23	F-4	Q40	H-3
CN6	L-3	RV24	I-3	Q41	J-4
CN7	E-2	RV25	A-2	Q42	J-4
CN8	E-3	RV28	F-3	Q44	K-3
CN10	A-2	RV29	I-3	Q45	L-3
CN11	A-4	RV38	I-4	Q46	M-2
CN12	B-4			Q47	M-3
CN13	L-3	S1	K-4	Q54	B-1
		S2	K-2	Q55	C-2
CV1	A-4	S3	K-1	Q56	A-2
CV2	A-3	S4	F-3	Q57	B-1
CV3	A-1	S5	E-4	Q58	B-1
				Q59	D-1
DL1	D-5	L1	E-1	Q60	G-3
DL2	D-3	L3	L-1	Q61	D-2
DL3	D-2			Q62	F-2
		TP1	H-4	Q63	G-2
D2	J-4	TP2	H-3	Q64	G-1
D4	F-3	TP3	I-2	Q65	H-2
D5	J-3			Q66	J-2
D7	E-2	IC1	D-4	Q67	J-3
D8	J-2	IC2	H-3	Q69	K-2
D12	J-4	IC3	M-1	Q70	L-2
D14	J-4	IC5	H-3	Q71	M-1
D15	E-4	IC7	H-5	Q72	M-2
D17	J-3			Q91	E-1
D18	J-3	Q1	B-5	Q92	I-1
D19	J-3	Q2	C-5	Q93	F-2
D20	E-2	Q3	B-5	Q95	K-1
D21	J-2	Q4	B-4		
D22	J-2	Q5	B-4		
D23	J-2	Q6	D-4		
D25	K-4	Q7	F-5		
D26	J-4	Q8	D-4		
D27	I-3	Q9	F-4		
D28	I-5	Q10	G-4		
D29	K-3	Q11	G-4		
D30	K-3	Q12	H-4		
D34	K-1	Q13	J-5		
D35	K-2	Q14	J-5		
		Q16	K-4		
RV1	A-4	Q17	K-5		
RV2	F-5	Q18	K-4		
RV3	D-5	Q19	M-4		
RV4	E-5	Q20	L-4		
RV7	F-4	Q21	M-5		
RV8	H-5	Q22	H-4		
RV9	F-5	Q28	B-3		
RV10	G-5	Q29	B-4		
RV12	M-5	Q30	C-4		
RV13	L-5	Q31	A-4		
RV14	M-5	Q32	B-2		
RV15	K-5	Q33	C-2		
RV16	K-5	Q34	D-3		
RV17	K-5	Q35	G-4		
RV18	J-5	Q36	D-4		



PR-176/176U -COMPONENT SIDE-

1-643-715-11
BVW-300AP

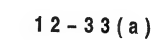
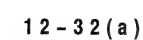
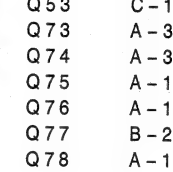
CN7	D-1
CN8	D-3
CN9	D-4
CN10	A-1
CN11	A-2
CN12	A-3
D9	D-3
D10	C-4
D11	B-1
D24	D-3
D31	C-1
D36	C-4
IC10	D-4
Q79	B-4
Q80	B-4
Q81	A-4
Q82	A-2
Q83	A-3
Q84	A-2
Q86	A-1
Q87	C-4
Q88	C-1
Q89	D-1
Q96	C-1
RV30	A-3
RV31	B-2
RV32	A-1
RV33	B-1
RV34	D-3
RV35	C-3
RV36	C-1
RV37	D-1



PR-176/176U -SOLDERING SIDE-

1-643-715-11
BVW-300AP

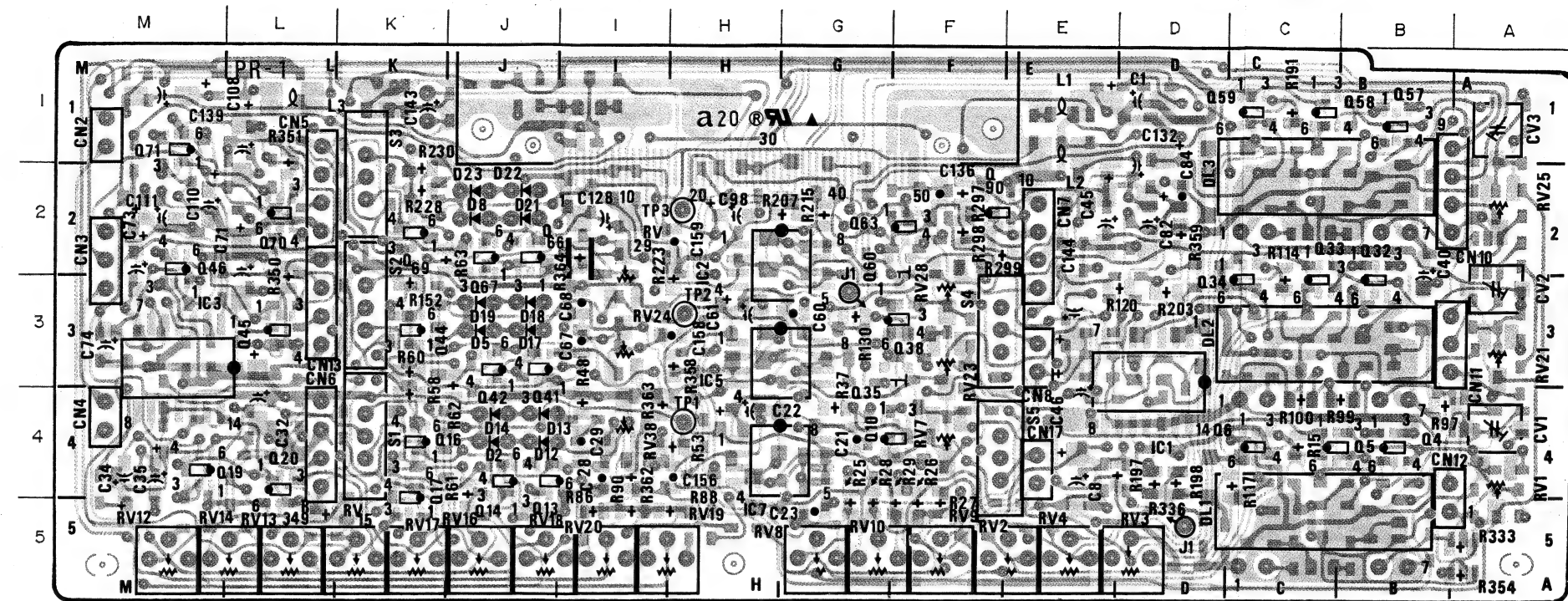
S / N ; 41954 through 42130



PR-176,PR-177,PR-178;GAMMA,MASKING,KNEE,SLOPE,W CLIP,DCC

S/N;42131 and higher

CN2	M-1	RV19	H-5	Q37	F-3
CN3	M-2	RV20	I-5	Q38	F-3
CN4	M-4	RV21	A-3	Q39	G-3
CN5	L-1	RV23	F-4	Q40	H-3
CN6	L-3	RV24	I-3	Q41	J-4
CN7	E-2	RV25	A-2	Q42	J-4
CN8	E-3	RV28	F-3	Q44	K-3
CN10	A-2	RV29	I-3	Q45	L-3
CN11	A-4	RV38	I-4	Q46	M-2
CN12	B-4			Q47	M-3
CN13	L-3	S1	K-4	Q54	B-1
		S2	K-2	Q55	C-2
CV1	A-4	S3	K-1	Q56	A-2
CV2	A-3	S4	F-3	Q57	B-1
CV3	A-1	S5	E-4	Q58	B-1
				Q59	D-1
DL1	D-5	L1	E-1	Q60	G-3
DL2	D-3	L3	L-1	Q61	D-2
DL3	D-2			Q62	F-2
		TP1	H-4	Q63	G-2
D2	J-4	TP2	H-3	Q64	G-1
D4	F-3	TP3	I-2	Q65	H-2
D5	J-3			Q66	J-2
D7	E-2	IC1	D-4	Q67	J-3
D8	J-2	IC2	H-3	Q69	K-2
D12	J-4	IC3	M-1	Q70	L-2
D14	J-4	IC5	H-3	Q71	M-1
D15	E-4	IC7	H-5	Q72	M-2
D17	J-3			Q91	E-1
D18	J-3	Q1	B-5	Q92	I-1
D19	J-3	Q2	C-5	Q93	F-2
D20	E-2	Q3	B-5	Q95	K-1
D21	J-2	Q4	B-4		
D22	J-2	Q5	B-4		
D23	J-2	Q6	D-4		
D25	K-4	Q7	F-5		
D26	J-4	Q8	D-4		
D27	I-3	Q9	F-4		
D28	I-5	Q10	G-4		
D29	K-3	Q11	G-4		
D30	K-3	Q12	H-4		
D34	K-1	Q13	J-5		
D35	K-2	Q14	J-5		
		Q16	K-4		
RV1	A-4	Q17	K-5		
RV2	F-5	Q18	K-4		
RV3	D-5	Q19	M-4		
RV4	E-5	Q20	L-4		
RV7	F-4	Q21	M-5		
RV8	H-5	Q22	H-4		
RV9	F-5	Q28	B-3		
RV10	G-5	Q29	B-4		
RV12	M-5	Q30	C-4		
RV13	L-5	Q31	A-4		
RV14	M-5	Q32	B-2		
RV15	K-5	Q33	C-2		
RV16	K-5	Q34	D-3		
RV17	K-5	Q35	G-4		
RV18	J-5	Q36	D-4		

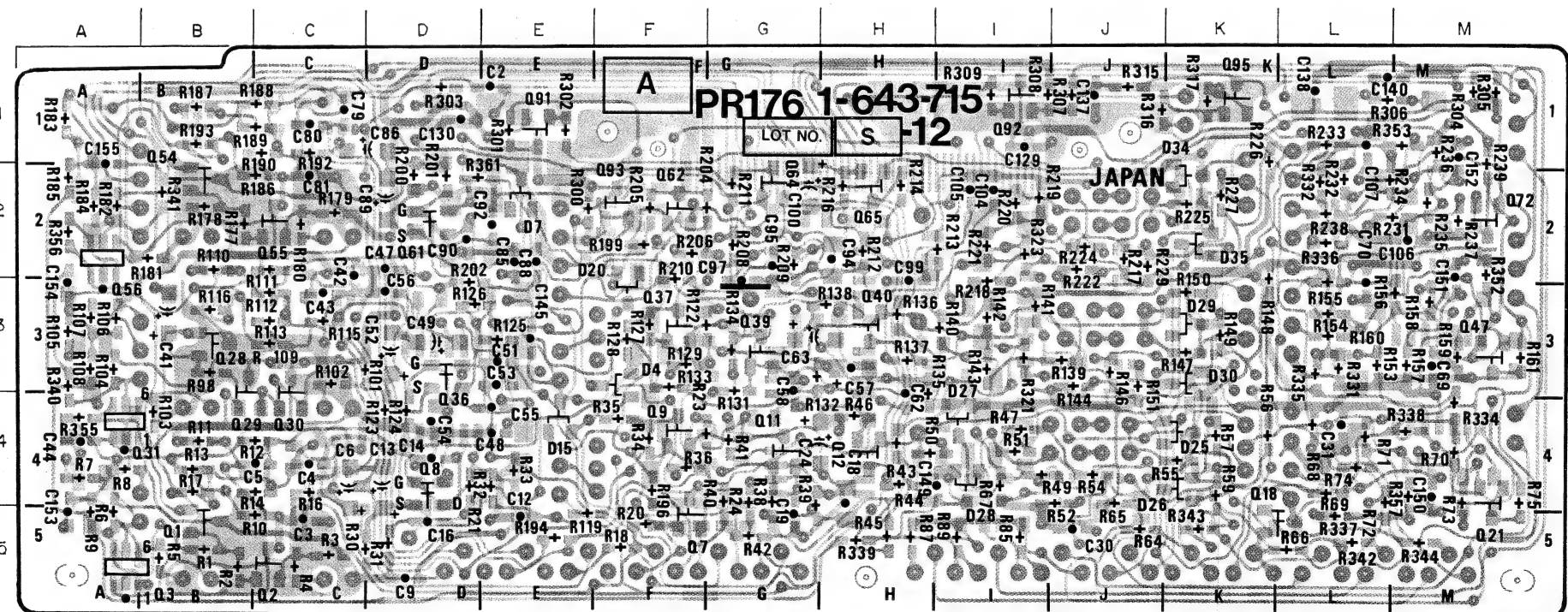


PR-176/176U -COMPONENT SIDE-

1-643-715-12
BVW-300AP

CN7	D-1
CN8	D-3
CN9	D-4
CN10	A-1
CN11	A-2
CN12	A-3
D9	D-3
D10	C-4
D11	B-1
D24	D-3
D31	C-1
D36	C-4
IC10	D-4
Q79	B-4
Q80	B-4
Q81	A-4
Q82	A-2
Q83	A-3
Q84	A-2
Q86	A-1
Q87	C-4
Q88	C-1
Q89	D-1
Q96	C-1

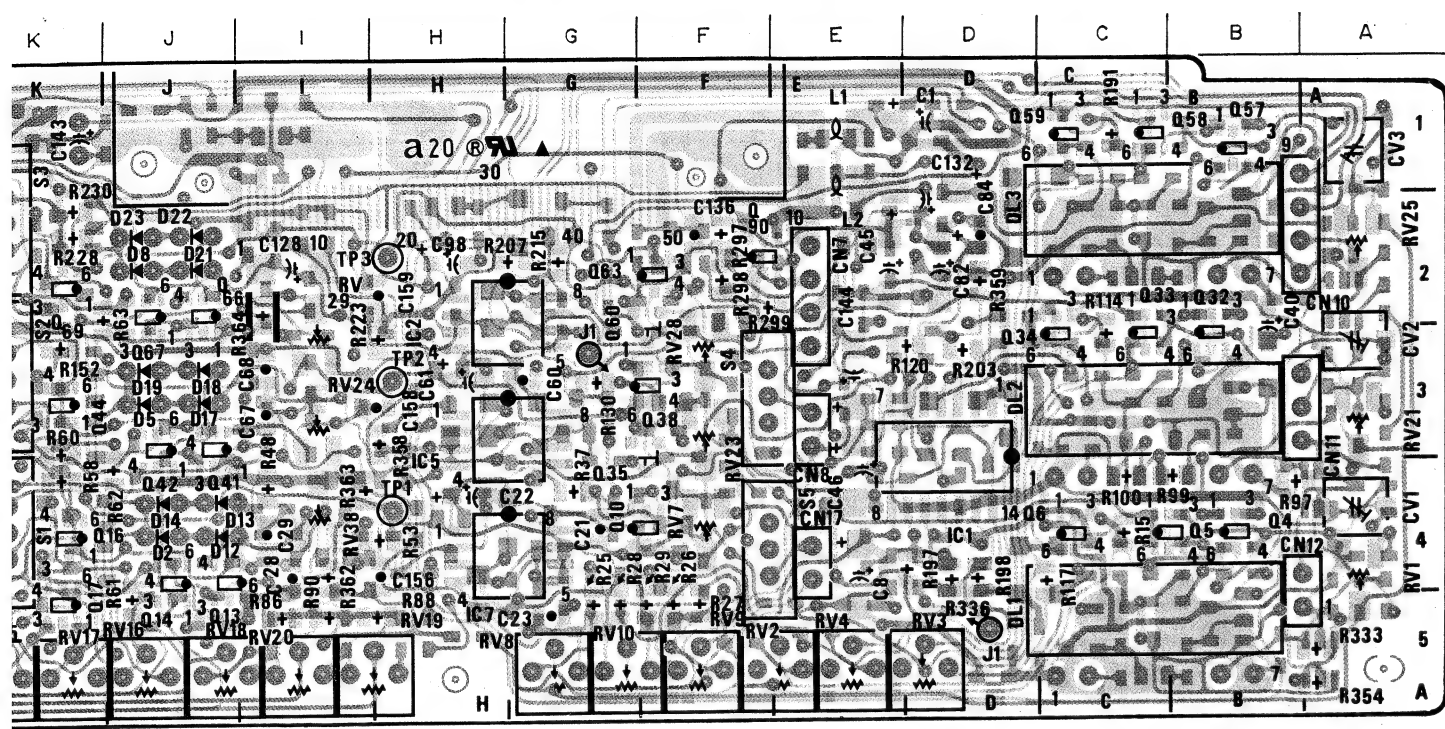
RV30	A-3
RV31	B-2
RV32	A-1
RV33	B-1
RV34	D-3
RV35	C-3
RV36	C-1
RV37	D-1



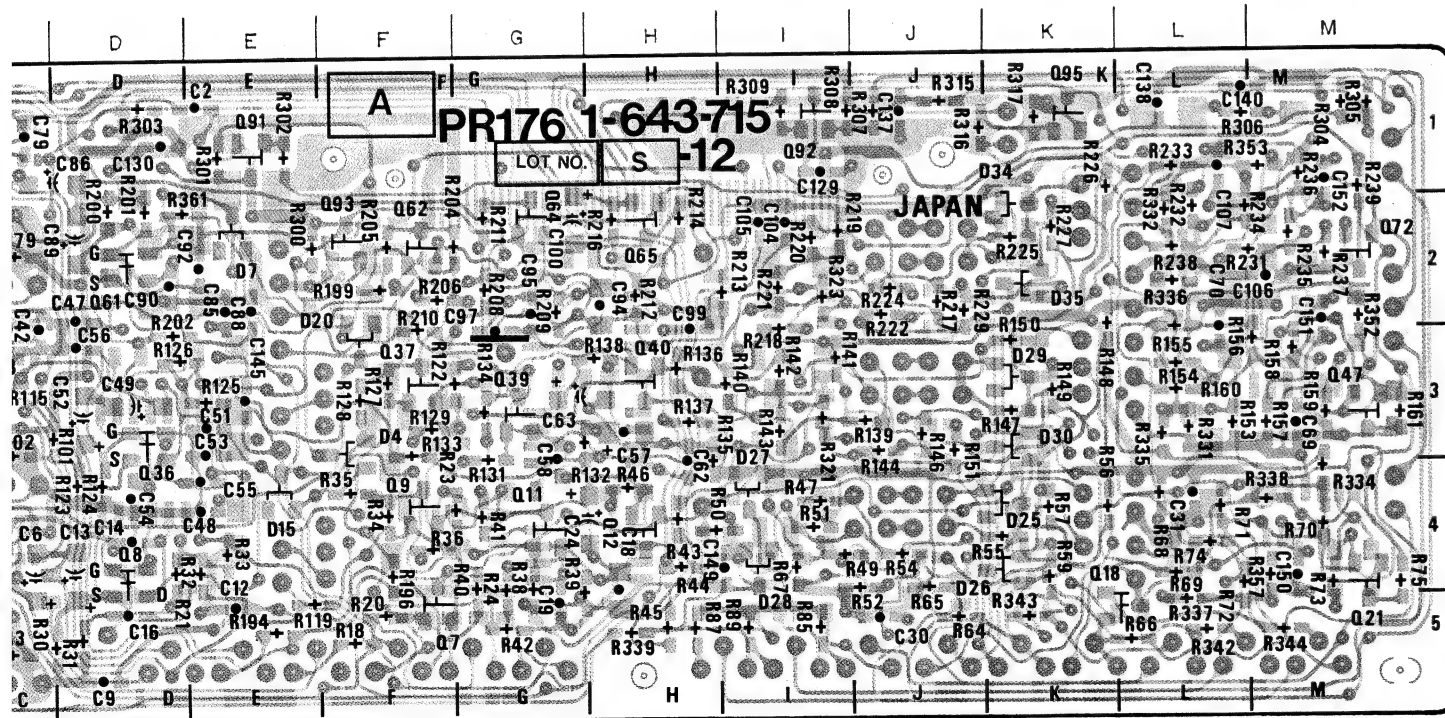
PR-176/176U -SOLDERING SIDE-

1-643-715-12
BVW-300AP

AMMA,MASKING,KNEE,SLOPE,W CLIP,DCC S/N;42131 and higher



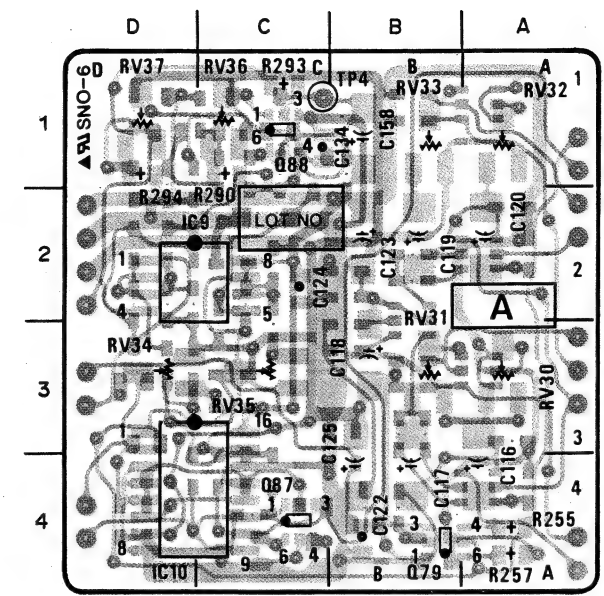
PR-176/176U -COMPONENT SIDE-
1-643-715-12
BVW-300AP



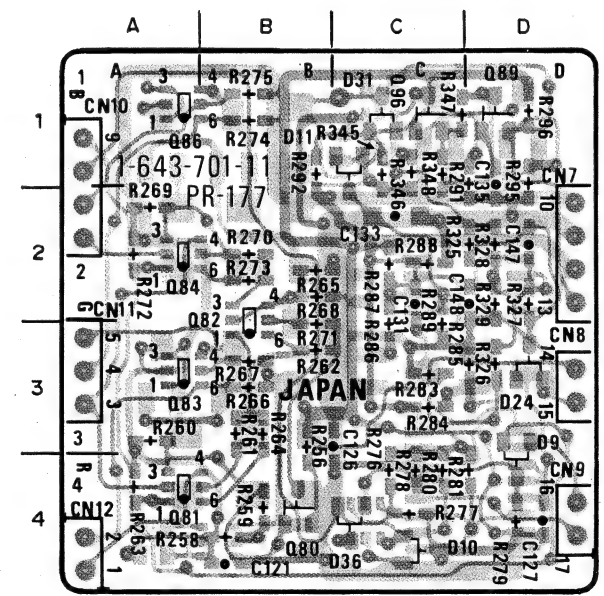
PR-176/176U -SOLDERING SIDE-
1-643-715-12
BVW-300AP

- CN7 D-1
- CN8 D-3
- CN9 D-4
- CN10 A-1
- CN11 A-2
- CN12 A-3
- D9 D-3
- D10 C-4
- D11 B-1
- D24 D-3
- D31 C-1
- D36 C-4
- IC10 D-4
- Q79 B-4
- Q80 B-4
- Q81 A-4
- Q82 A-2
- Q83 A-3
- Q84 A-2
- Q86 A-1
- Q87 C-4
- Q88 C-1
- Q89 D-1
- Q96 C-1

- RV30 A-3
- RV31 B-2
- RV32 A-1
- RV33 B-1
- RV34 D-3
- RV35 C-3
- RV36 C-1
- RV37 D-1

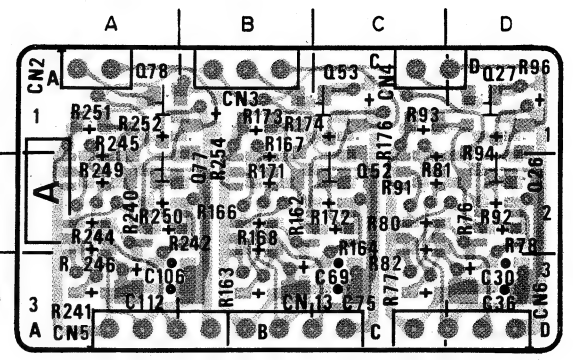


PR-177 -COMPONENT SIDE-
1-643-701-11
BP-020
BVW-300AP

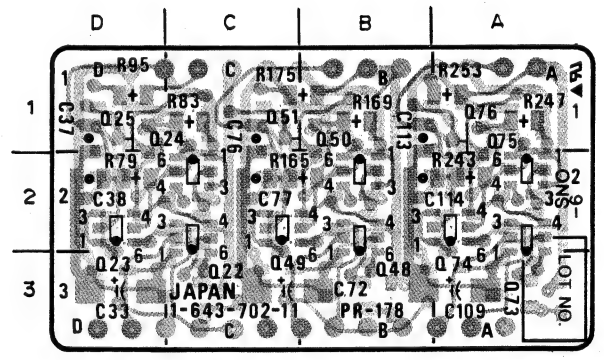


PR-177 -SOLDERING SIDE-
1-643-701-11
BP-020
BVW-300AP

- CN2 A-1
- CN3 B-1
- CN5 A-3
- CN6 D-3
- CN13 B-3
- Q22 D-3
- Q23 D-3
- Q24 D-1
- Q25 D-1
- Q26 D-2
- Q27 D-1
- Q48 B-3
- Q49 C-3
- Q50 B-1
- Q51 C-1
- Q52 C-2
- Q53 C-1
- Q73 A-3
- Q74 A-3
- Q75 A-1
- Q76 A-1
- Q77 B-2
- Q78 A-1



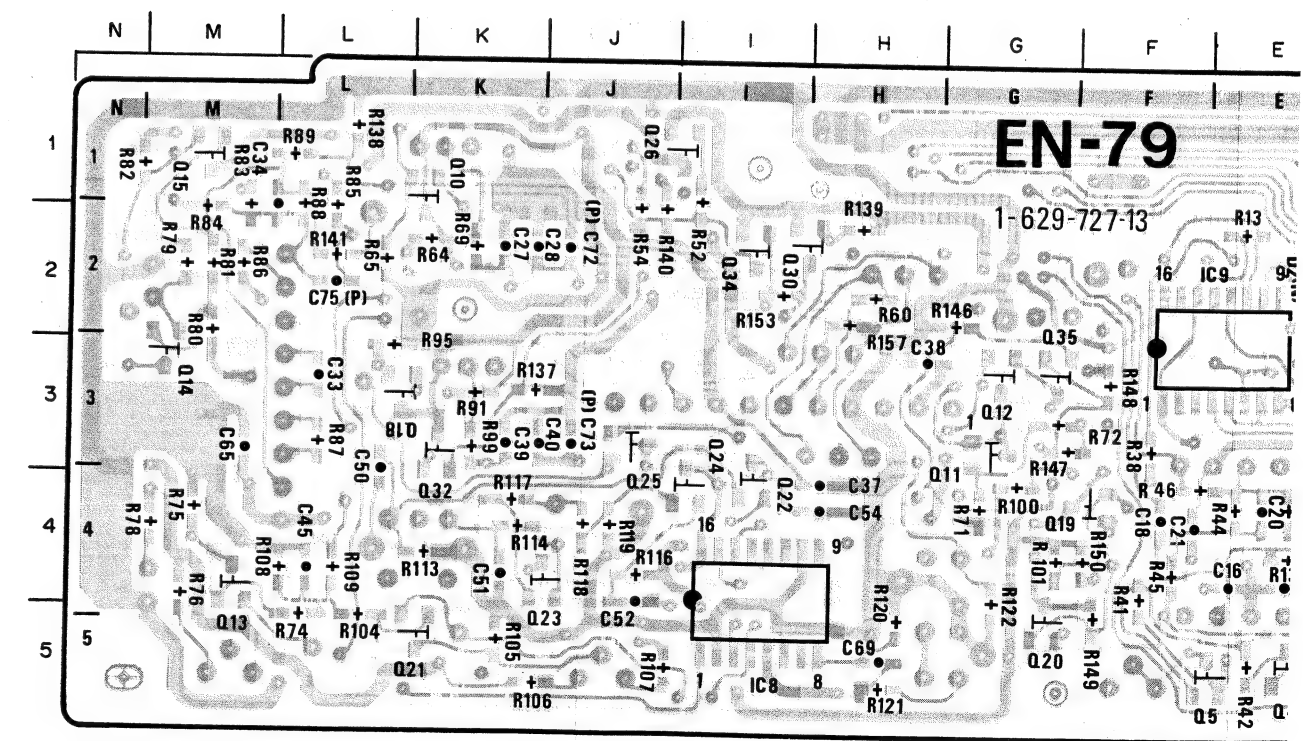
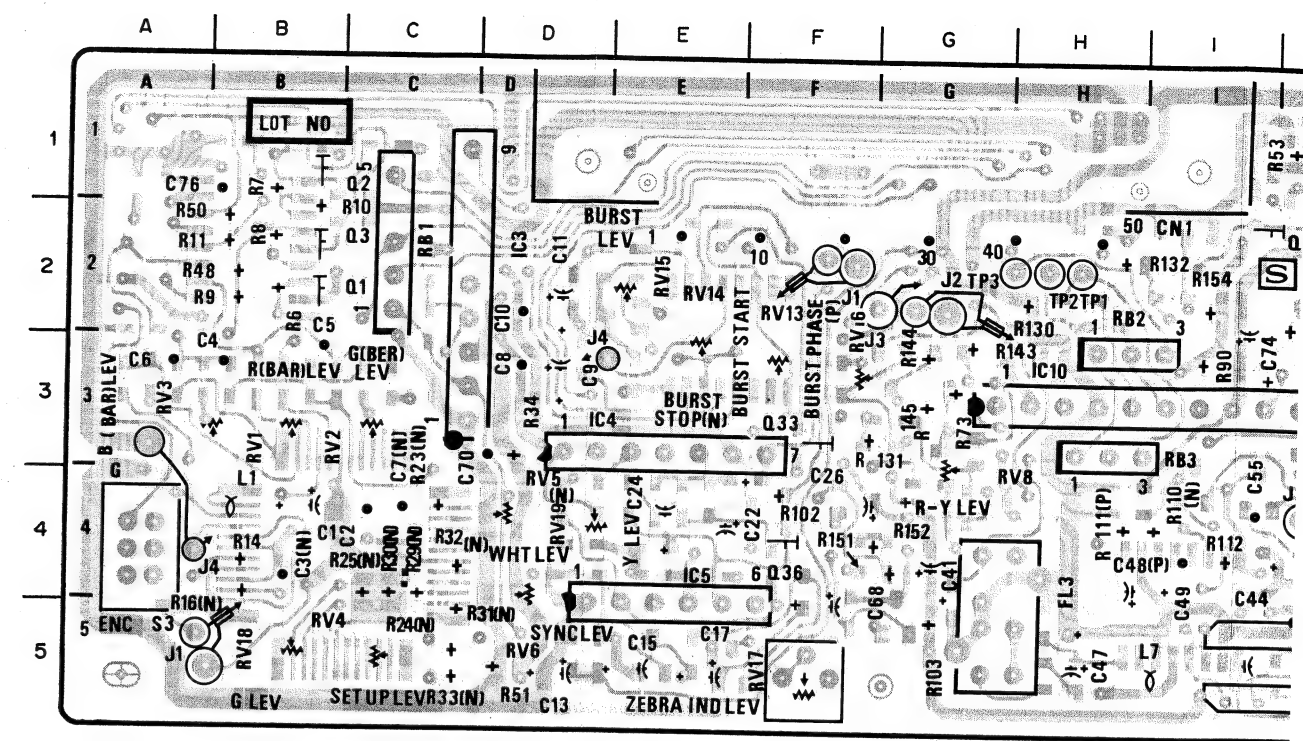
PR-178 -COMPONENT SIDE-
1-643-702-11
BP-021
BVW-300AP



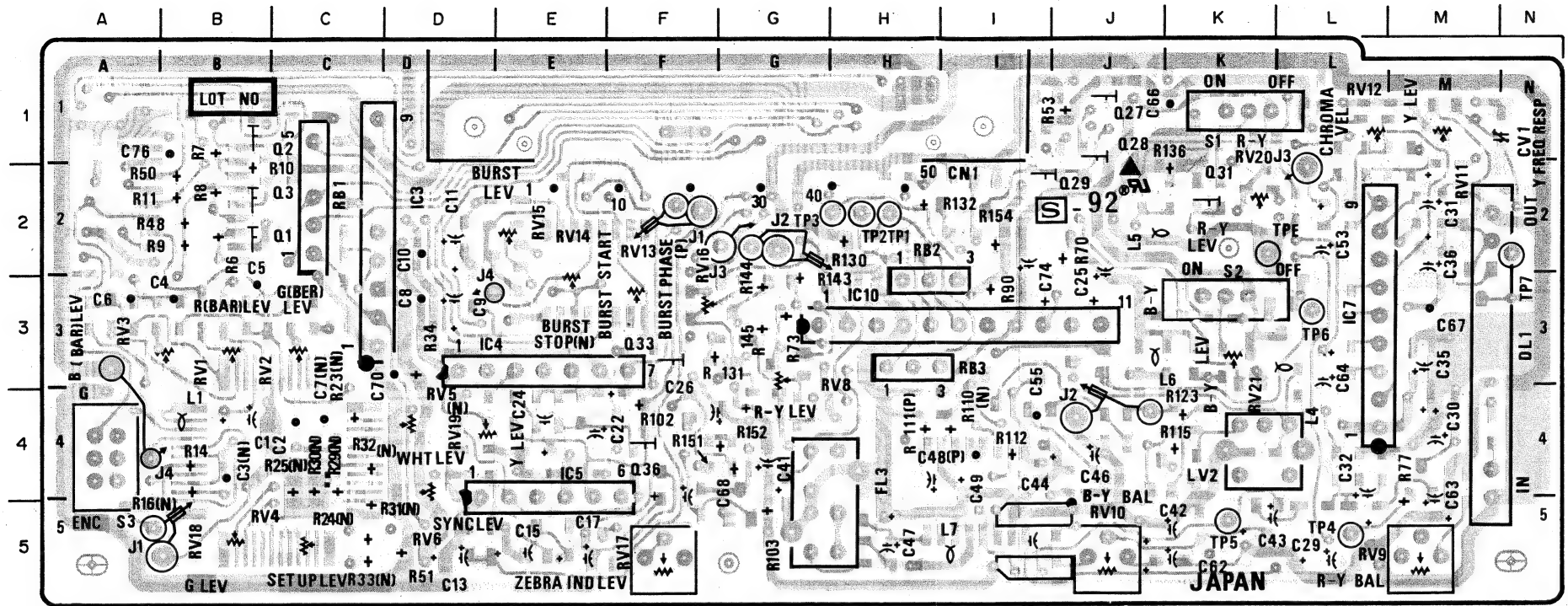
PR-178 -SOLDERING SIDE-
1-643-702-11
BP-021
BVW-300AP

EN-79P;Y/R-Y/B-Y SIGNAL GEN,ENCODER CB GEN

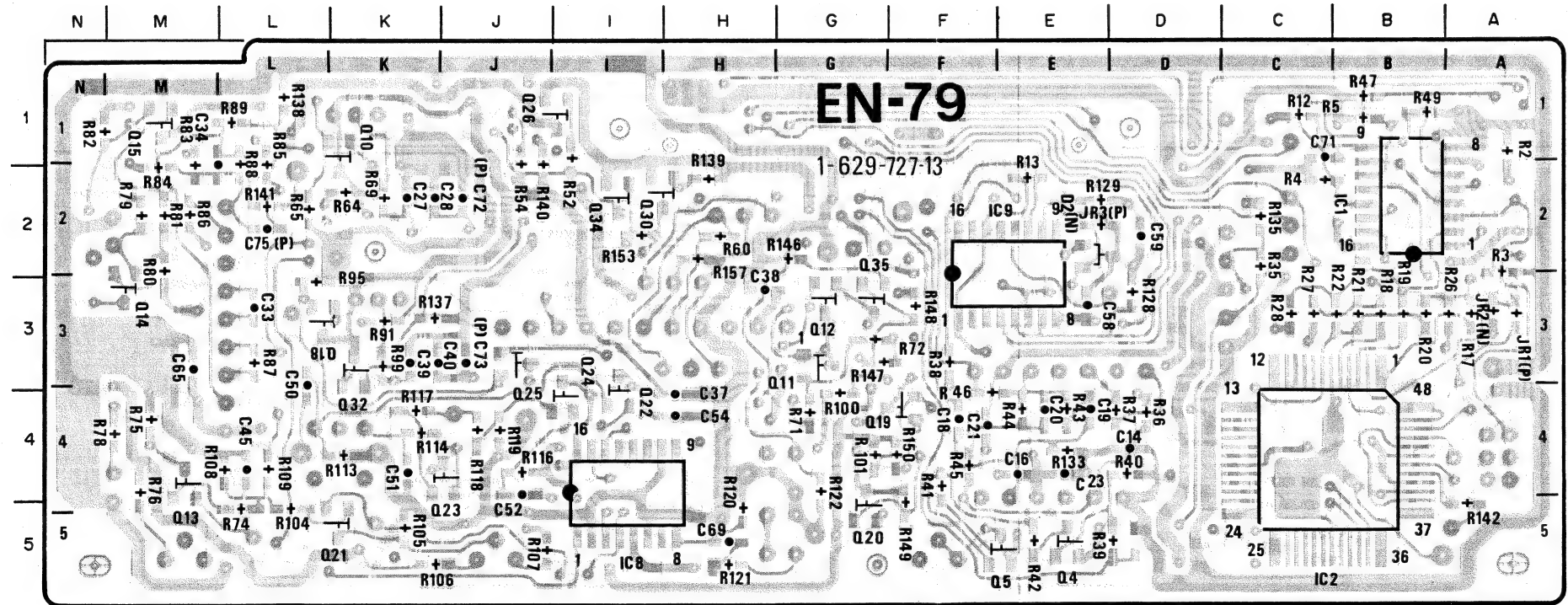
CN1	I-2	RB1	C-2
		RB2	C-2
CV1	N-1	RB3	I-3
DL1	N-3	RV1	B-3
		RV2	B-3
D2	E-2	RV3	A-3
		RV4	B-5
E1	L-2	RV5	D-4
		RV6	D-5
FL3	H-4	RV8	H-3
		RV9	L-5
IC1	B-2	RV10	J-5
IC2	C-5	RV11	M-2
IC3	D-2	RV12	L-1
IC4	D-3	RV13	F-2
IC5	E-4	RV14	E-2
IC7	L-3	RV15	E-2
IC8	I-5	RV17	F-5
IC9	E-2	RV18	B-5
IC10	H-3	RV19	D-4
		RV20	K-1
LV2	K-4	RV21	K-4
Q1	C-2	S1	K-1
Q2	C-1	S2	L-3
Q3	C-2	S3	A-5
Q4	E-5		
Q5	E-5	TP1	H-2
Q10	K-1	TP2	H-2
Q11	G-3	TP3	G-2
Q12	G-3	TP4	L-5
Q13	M-4	TP5	K-5
Q14	M-3	TP6	L-3
Q15	M-1	TP7	N-3
Q18	L-3		
Q19	F-4		
Q20	G-5		
Q21	K-4		
Q22	I-4		
Q23	J-5		
Q24	I-3		
Q25	J-4		
Q26	J-1		
Q27	J-1		
Q28	J-1		
Q29	J-2		
Q30	I-2		
Q31	K-2		
Q32	K-4		
Q33	F-3		
Q34	I-2		
Q35	G-2		
Q36	F-4		



EN-79P;Y/R-Y/B-Y SIGNAL GEN,ENCODER CB GEN



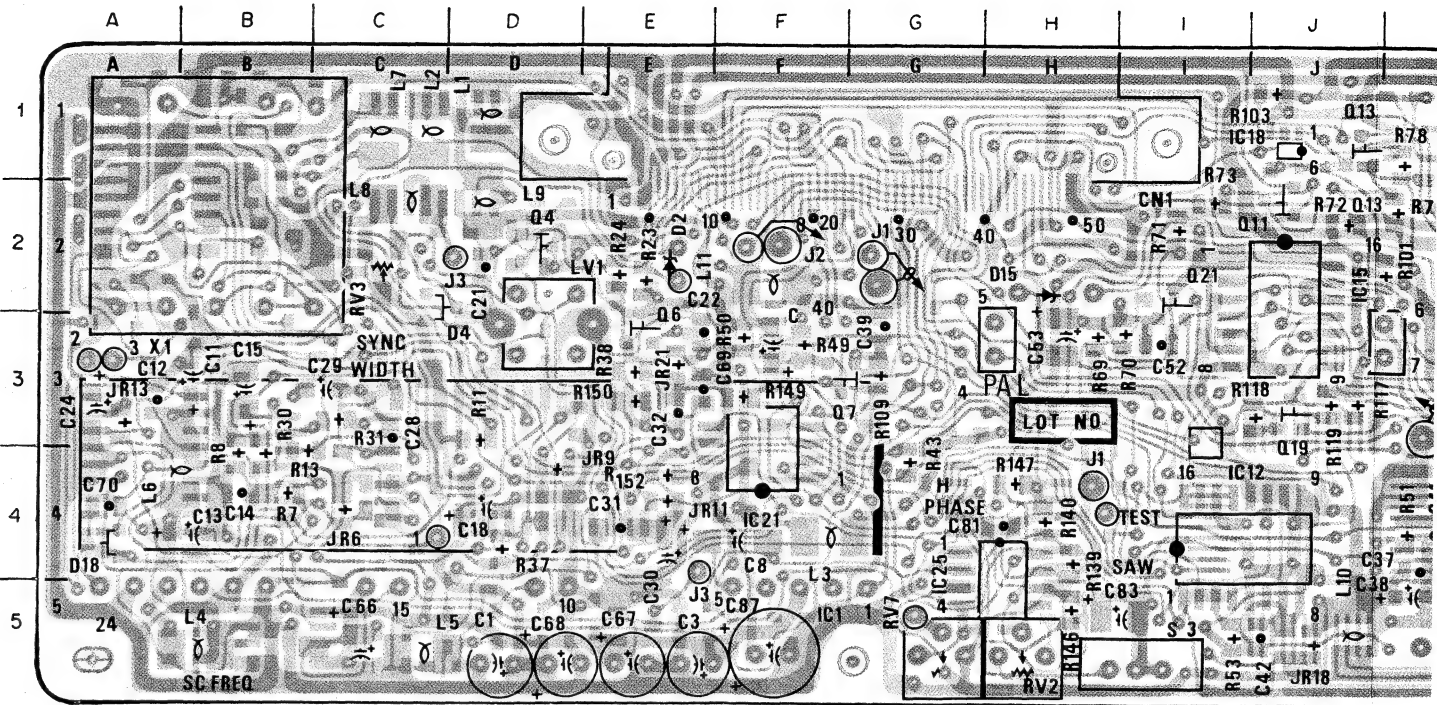
EN-79P -SOLDERING SIDE-
1-629-727-14
BVW-300AP



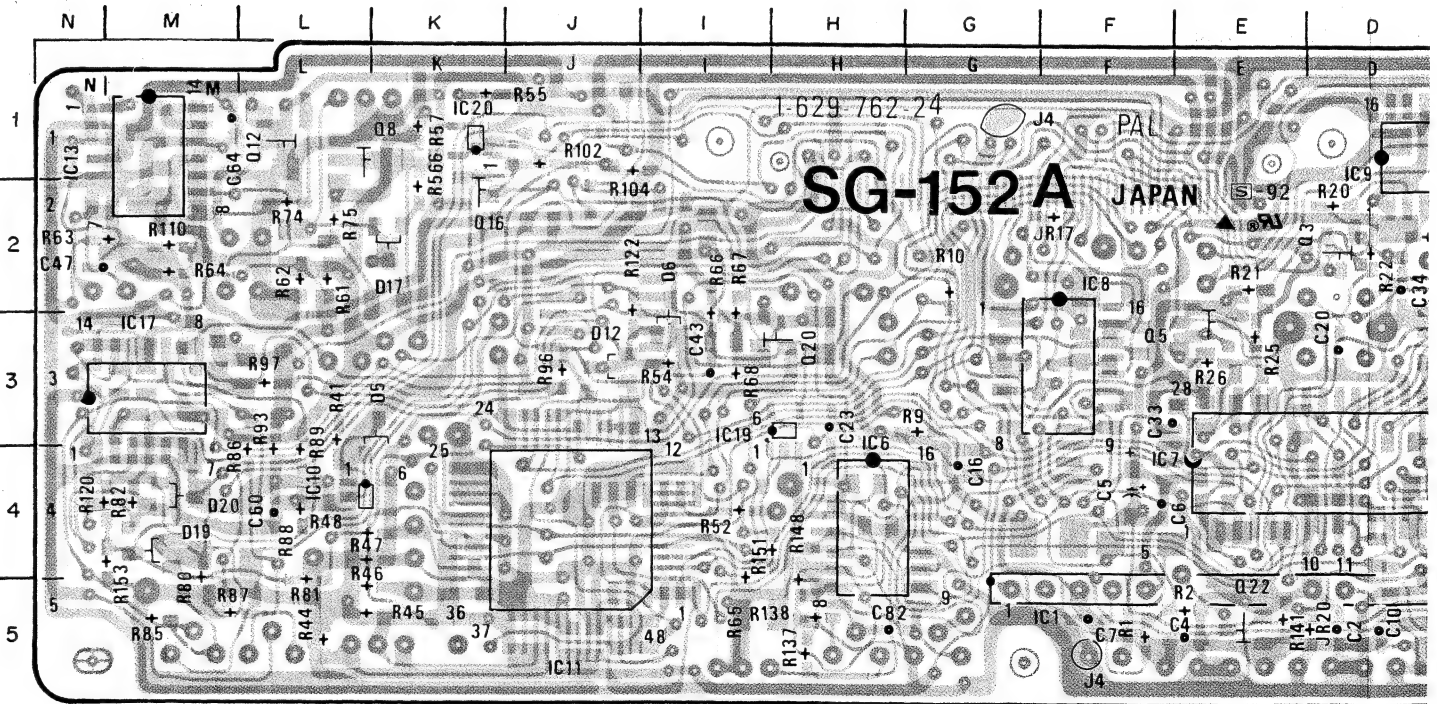
EN-79P -COMPONENT SIDE-
1-629-727-14
BVW-300AP

SG-152P;SYNC GEN
SG-157P;SC PHASE

CN1	I-2	Q13	J-1
		Q16	K-2
D1	C-2	Q19	J-3
D2	E-2	Q20	H-3
D3	A-3	Q21	I-2
D4	D-3	Q22	E-5
D5	K-3		
D6	I-2	RV1	C-5
D9	N-2	RV2	H-5
D10	M-4	RV3	C-2
D11	M-3	RV4	K-4
D12	J-3	RV5	L-5
D13	L-3	RV6	M-5
D15	H-2	RV7	G-5
D16	M-2		
D17	K-2	S1	K-5
D18	A-4	S2	K-4
		S3	I-5
E1	M-4		
		X1	A-2
IC1	F-5		
IC2	B-5		
IC3	A-4		
IC4	B-2		
IC5	C-3		
IC6	H-4		
IC7	F-4		
IC8	F-2		
IC9	D-1		
IC10	L-4		
IC11	J-5		
IC12	I-4		
IC13	N-1		
IC14	L-1		
IC15	J-2		
IC17	M-3		
IC18	I-1		
IC19	I-3		
IC20	K-1		
IC25	G-4		
LV1	D-2		
Q1	C-2		
Q2	C-1		
Q3	D-2		
Q4	D-2		
Q5	F-3		
Q6	E-3		
Q7	F-3		
Q8	K-1		
Q9	N-2		
Q10	N-1		
Q11	J-2		
Q12	L-1		

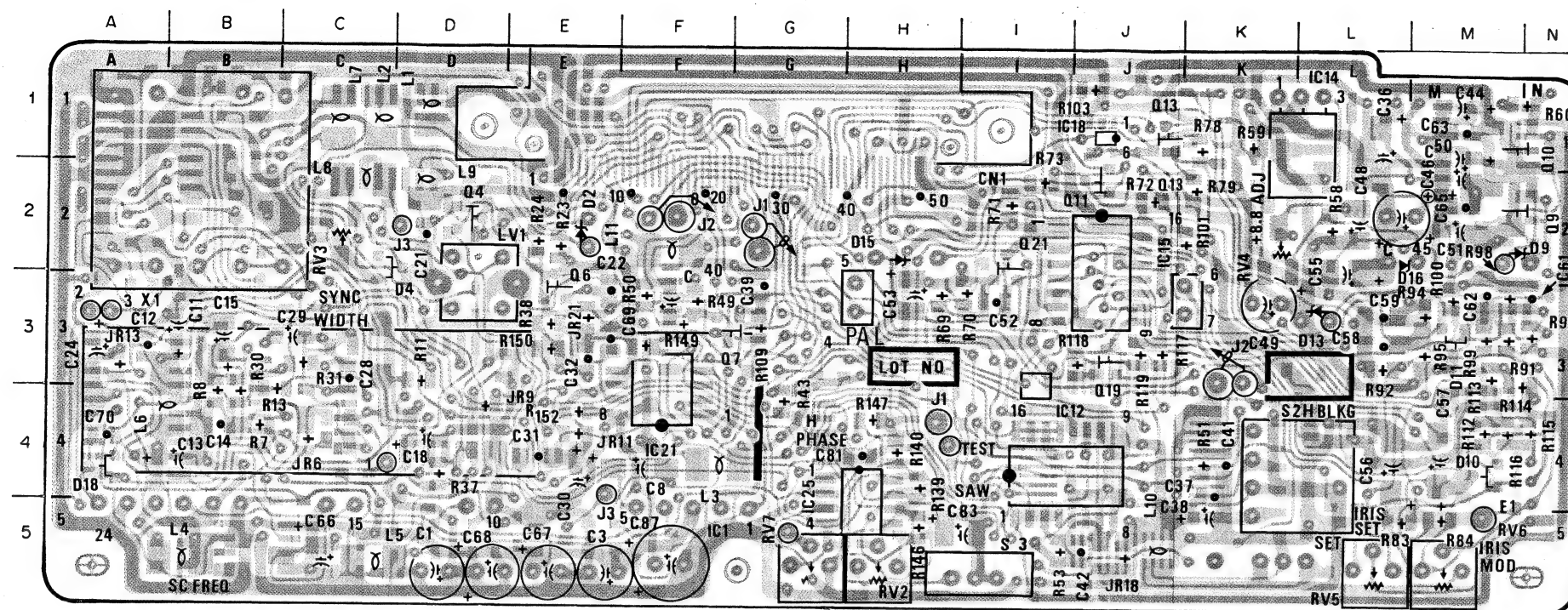


SG-
1-629-
BVW-30

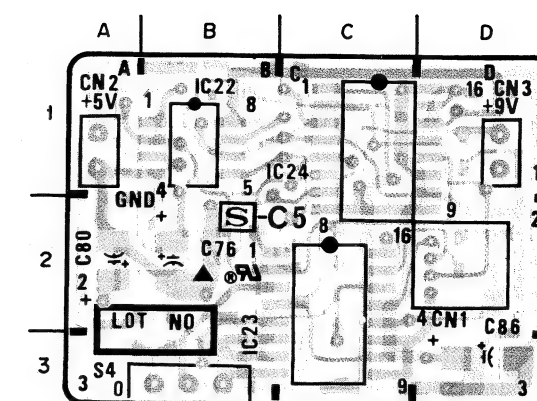


SG-
1-629-
BVW-30

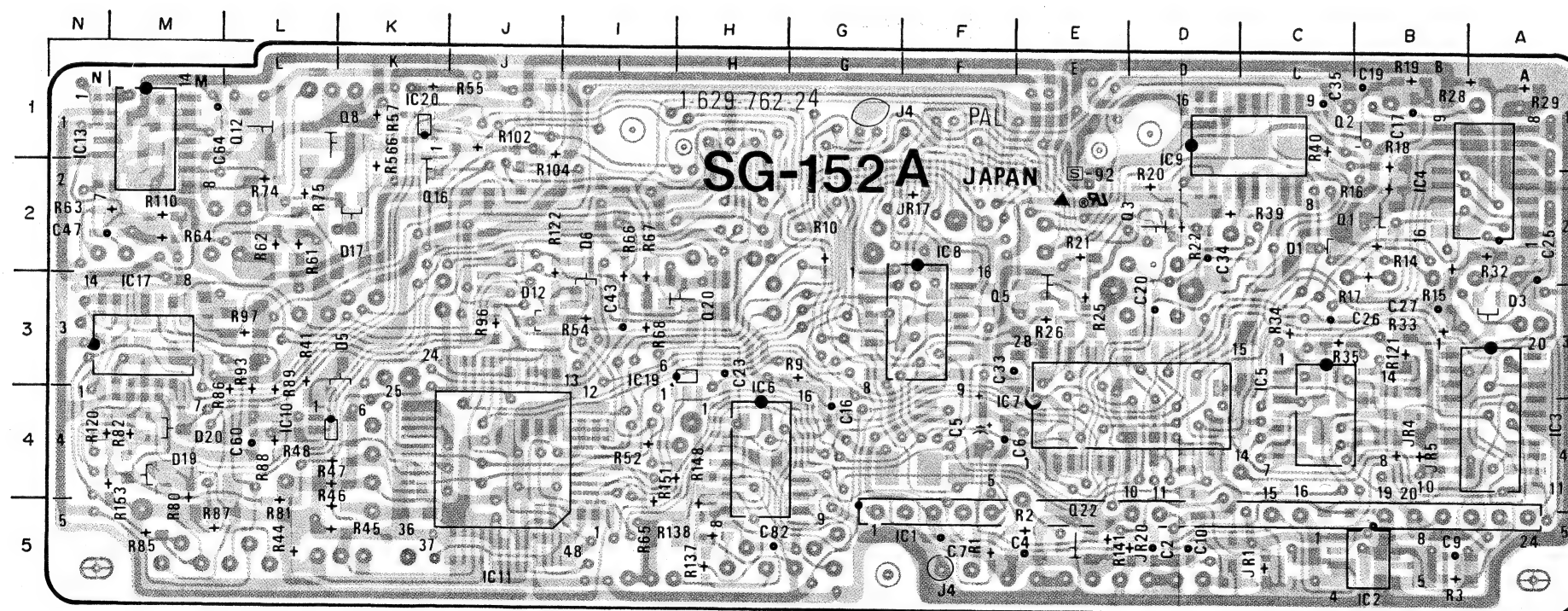
SG-152P;SYNC GEN
SG-157P;SC PHASE



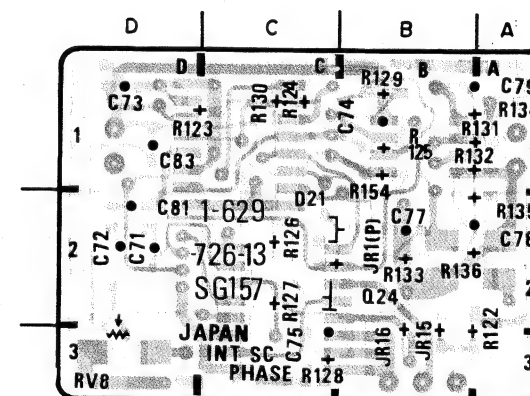
SG-152P -COMPONENT SIDE-
1-629-762-25
BVW-300AP



SG-157P -COMPONENT SIDE-
1-629-726-13
BVW-300AP



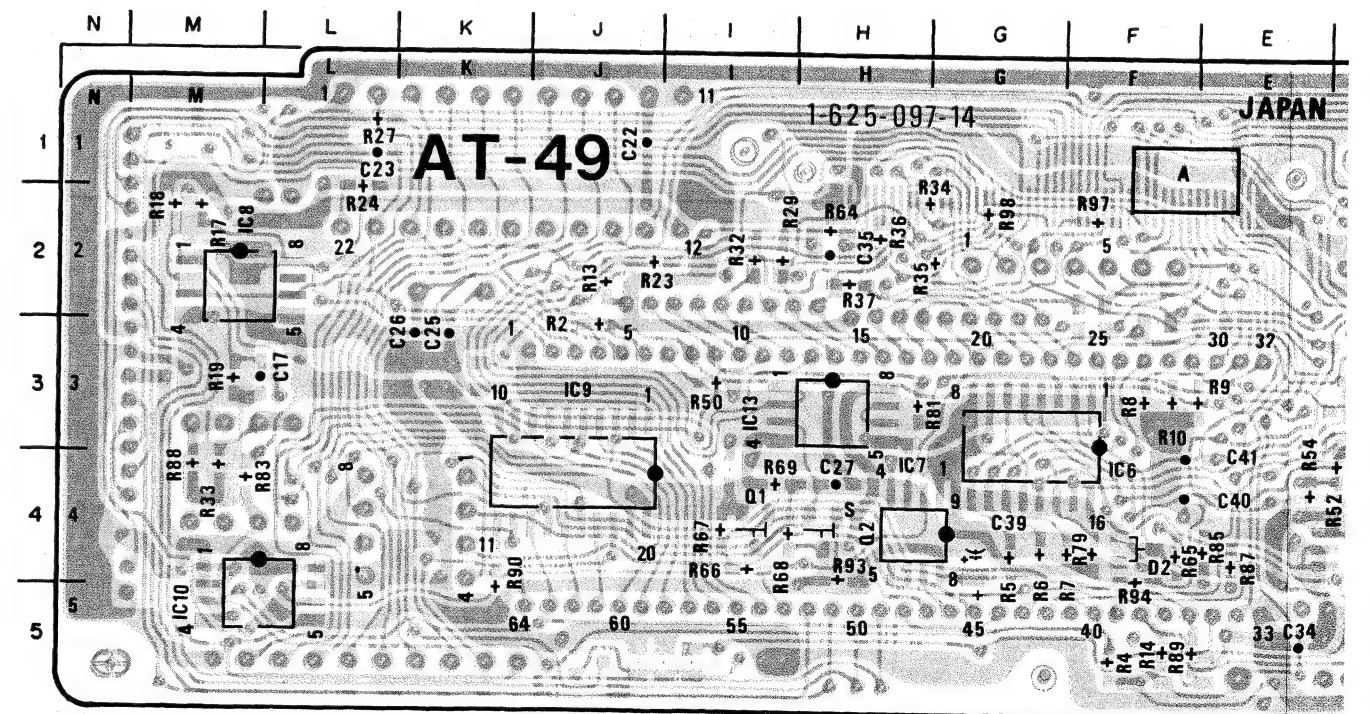
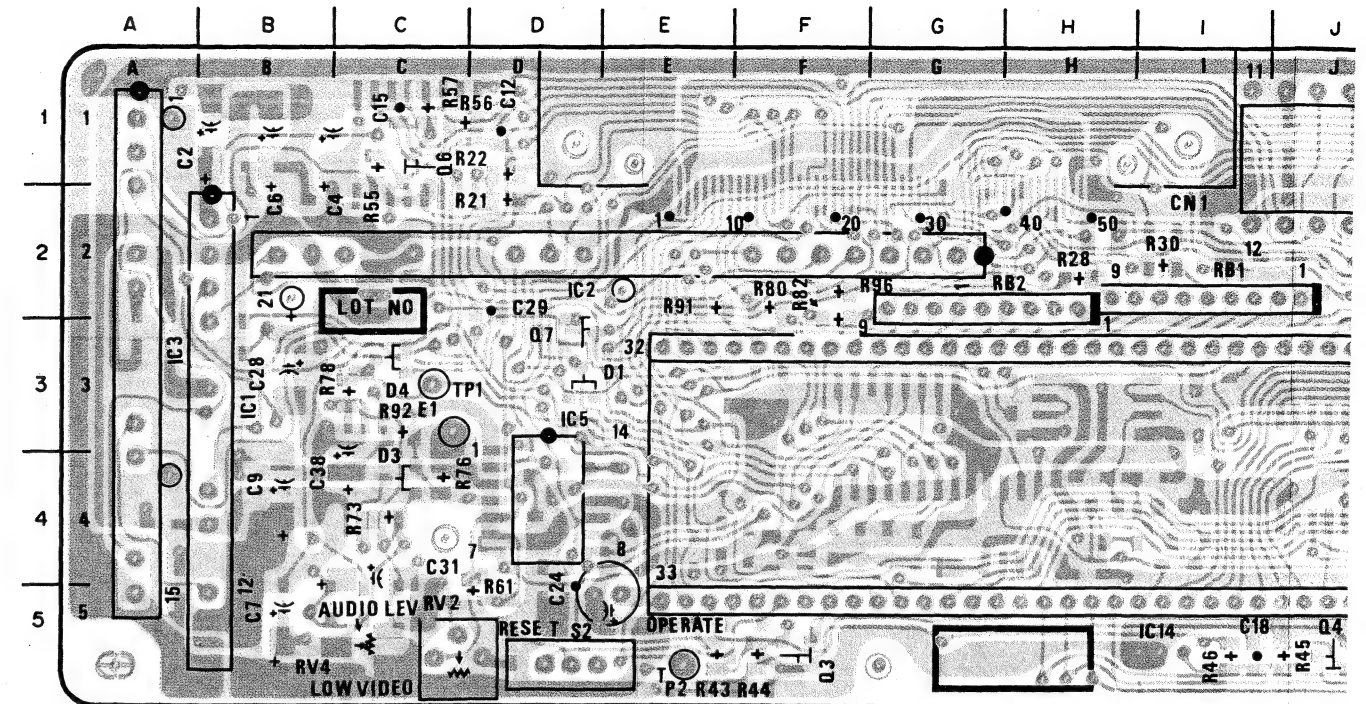
SG-152P -SOLDERING SIDE-
1-629-762-25
BVW-300AP



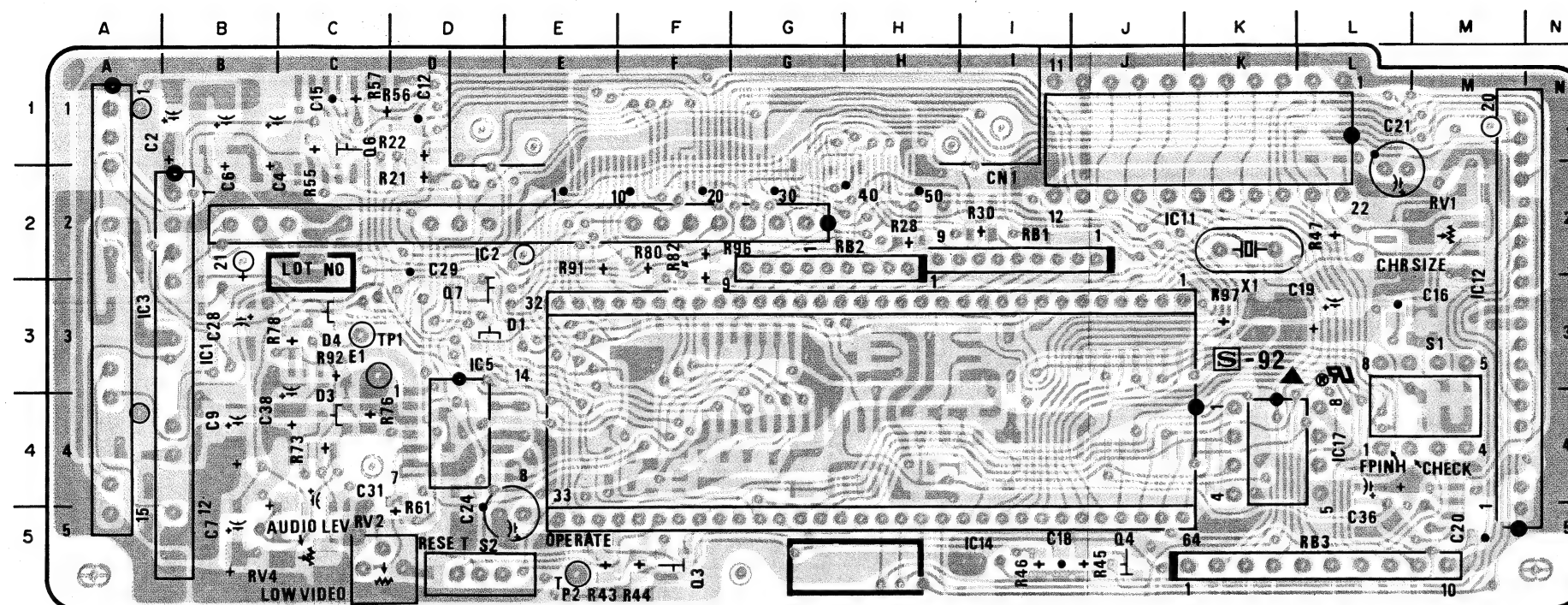
SG-157P -SOLDERING SIDE-
1-629-726-13
BVW-300AP

AT-49A/49C;AUTO W/B, CHARA GEN, SYS-CON

CN1	I-2
D1	E-3
D2	F-4
D3	C-4
D4	C-3
E1	C-3
IC1	B-3
IC2	D-2
IC3	A-3
IC4	B-1
IC5	D-3
IC6	F-3
IC7	H-4
IC8	M-2
IC9	J-3
IC10	M-5
IC11	J-2
IC12	M-3
IC13	I-3
IC14	H-5
IC16	B-4
IC17	L-4
Q1	I-4
Q2	H-4
Q3	F-5
Q4	J-5
Q6	C-1
Q7	D-3
RB1	I-2
RB2	H-2
RB3	I-5
RV1	M-2
RV2	C-5
RV4	B-5
S1	M-3
S2	D-5
TP1	C-3
TP2	E-5
X1	K-3

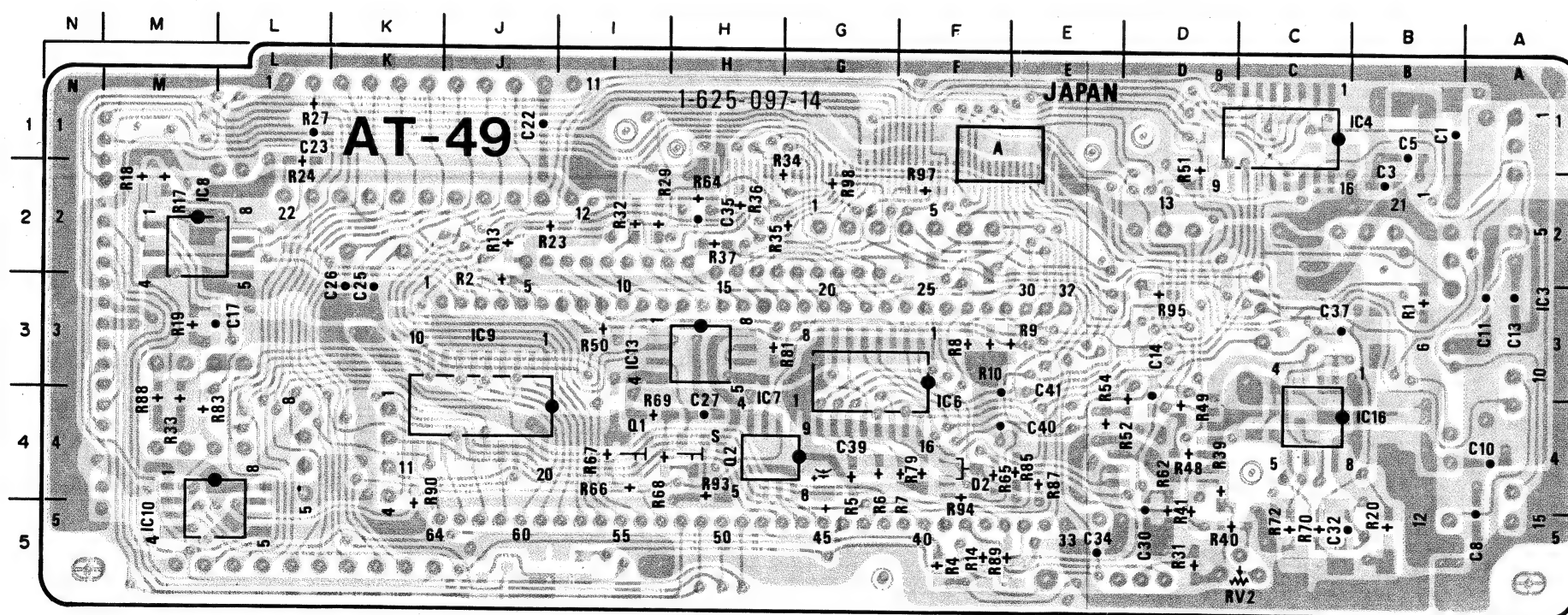


AT-49A/49C;AUTO W/B, CHARA GEN, SYS-CON



AT-49A/49C -COMPONENT SIDE-

1-625-097-15
BVW-300AP

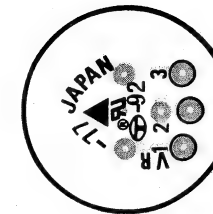


AT-49A/49C -SOLDERING SIDE-

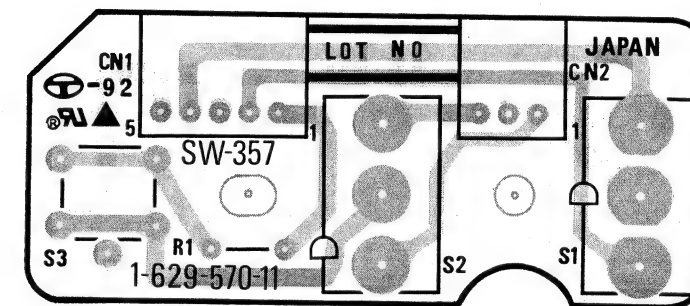
1-625-097-15
BVW-300AP

SW-220,SW-357B SW-220,SW-357B
VR-77 VR-77

SW-220;SEWTCH BOARD
SW-357B;SWITCH BOARD
VR-77;VOLUME CONTROL

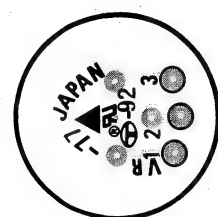


VR-77 -COMPONENT SIDE-
1-625-554-13
BVW-300AP

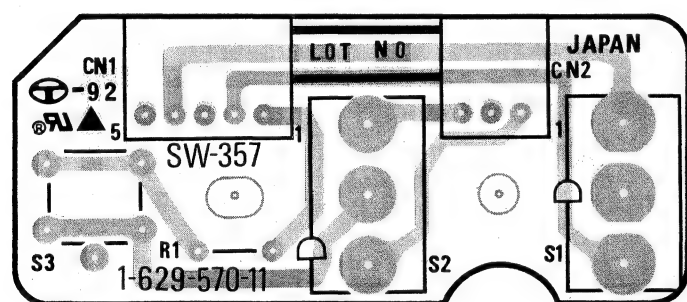


SW-357B -COMPONENT SIDE-
1-629-570-11
BVW-300AP

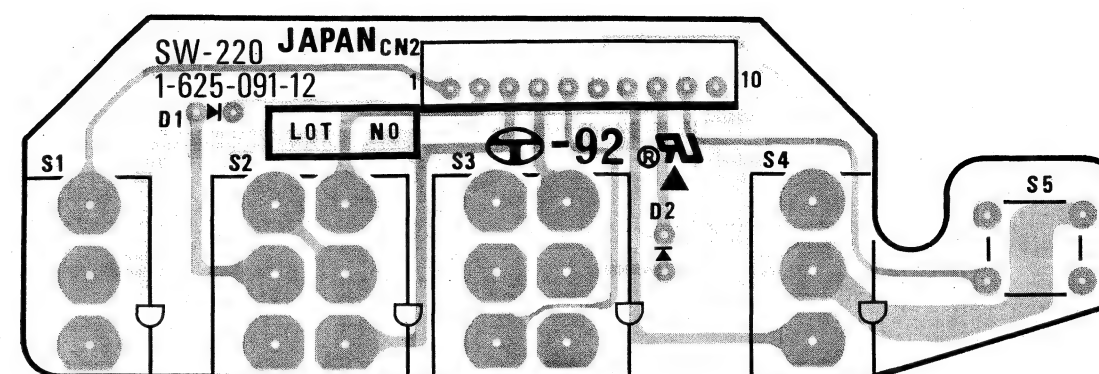
SW-220;SEWTCH BOARD
SW-357B;SWITCH BOARD
VR-77;VOLUME CONTROL



VR-77 -COMPONENT SIDE-
1-625-554-13
BVW-300AP



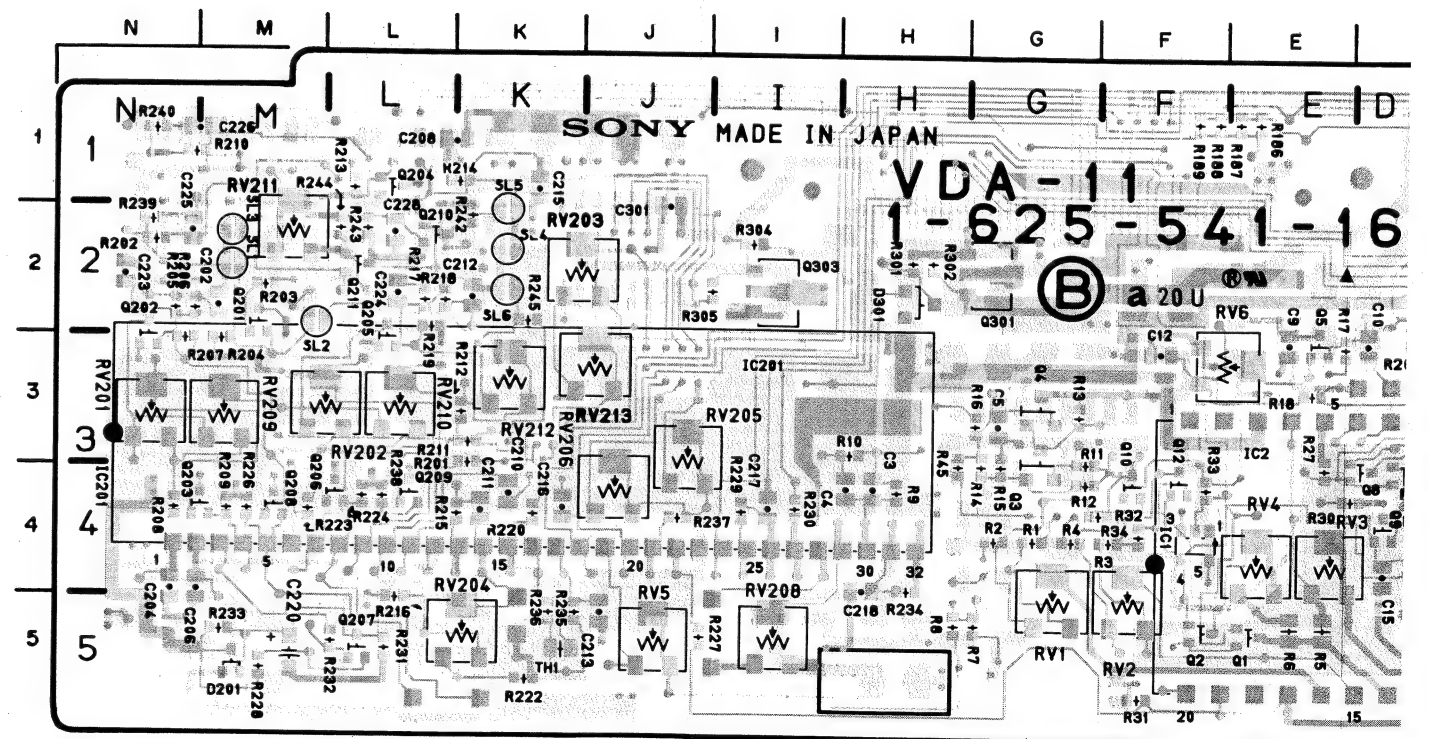
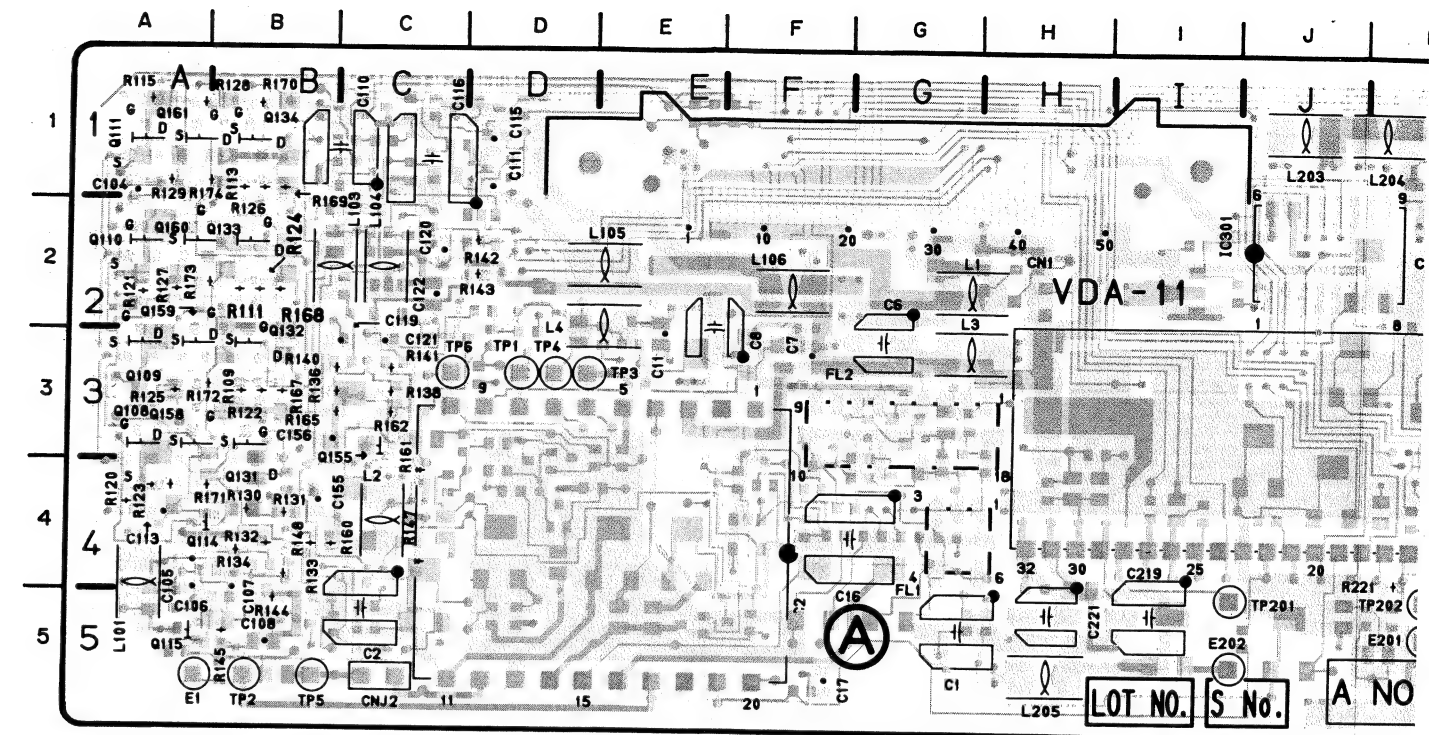
SW-357B -COMPONENT SIDE-
1-629-570-11
BVW-300AP



SW-220 -COMPONENT SIDE-
1-625-091-12
BVW-300AP

CN1	H-2	Q114	A-4	RV206	K-3
CN2	C-5	Q115	A-5	RV208	I-4
		Q116	C-4	RV209	M-3
CNJ2	C-5	Q117	C-4	RV210	L-3
		Q118	C-2	RV211	M-1
CV1	A-3	Q120	C-1	RV212	K-3
CV2	A-2	Q121	D-1	RV213	J-3
CV3	B-1	Q122	D-1		
CV4	B-1	Q123	C-1	TH1	K-5
CV11	B-3	Q131	B-4		
CV12	B-2	Q132	B-3	TP1	D-3
CV13	B-1	Q133	B-2	TP2	B-5
CV14	B-1	Q134	B-1	TP3	E-3
		Q153	C-3	TP4	D-3
D201	M-5	Q154	B-3	TP5	B-5
D301	H-2	Q155	C-3	TP6	C-3
		Q156	C-1	TP201	J-5
E1	A-5	Q157	B-2	TP202	K-5
E201	K-5	Q158	A-3	TP203	L-5
E202	I-5	Q159	A-2	TP204	K-5
		Q160	A-2		
FL1	G-4	Q161	A-1		
FL2	F-3	Q201	M-2		
FL202	N-2	Q202	N-2		
FL203	N-1	Q203	N-4		
		Q204	L-1		
IC1	F-4	Q205	L-2		
IC2	F-5	Q206	M-4		
IC3	D-2	Q207	L-5		
IC101	C-2	Q208	M-4		
IC201	N-4	Q209	L-4		
IC301	I-2	Q210	L-2		
		Q211	L-2		
LV201	L-4	Q301	G-2		
		Q303	I-2		
Q1	E-5	RV1	G-5		
Q2	F-5	RV2	F-5		
Q3	G-4	RV3	D-4		
Q4	G-3	RV4	E-4		
Q5	E-2	RV5	J-4		
Q6	C-2	RV6	F-2		
Q7	C-4	RV7	D-4		
Q8	D-4	RV101	A-4		
Q9	D-4	RV102	A-3		
Q10	F-3	RV103	A-2		
Q11	D-3	RV104	A-1		
Q12	F-3	RV105	C-5		
Q101	A-5	RV106	C-4		
Q106	A-4	RV107	B-3		
Q107	B-4	RV201	N-3		
Q108	A-3	RV202	L-3		
Q109	A-3	RV203	K-2		
Q110	A-2	RV204	K-4		
Q111	A-1	RV205	I-3		
Q112	B-5				

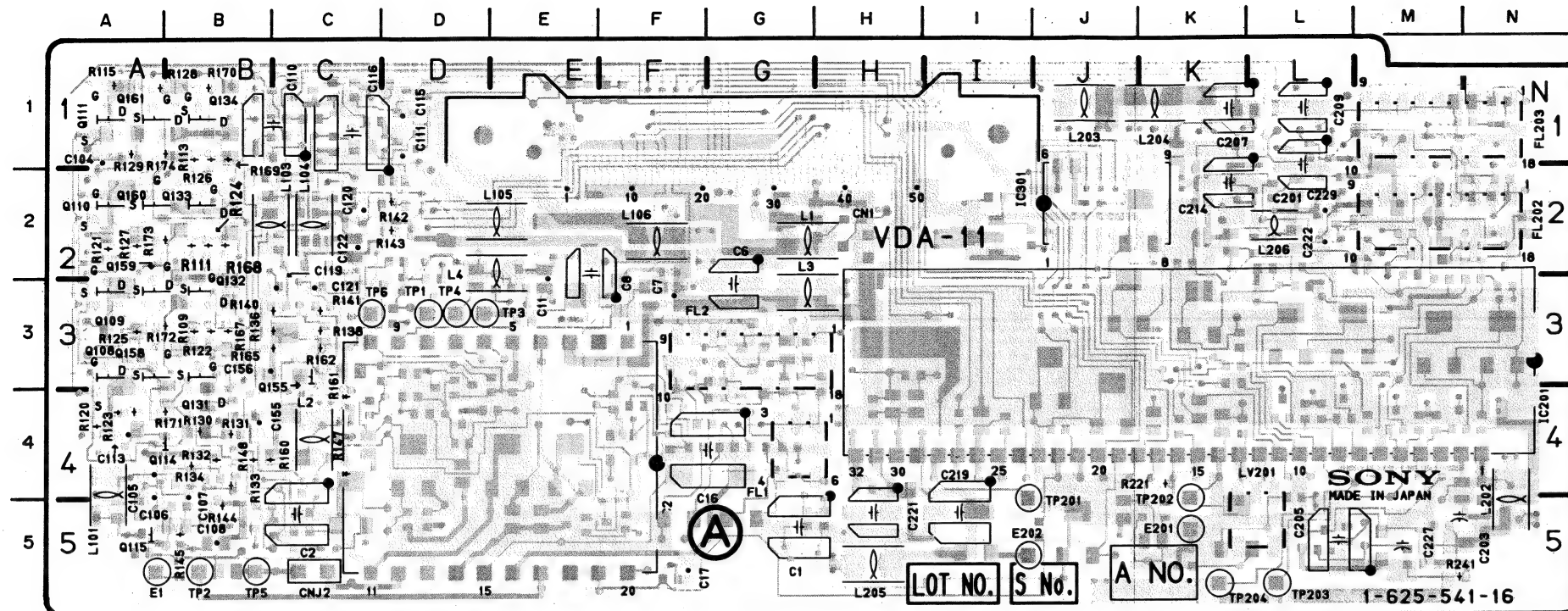
12-61(a)



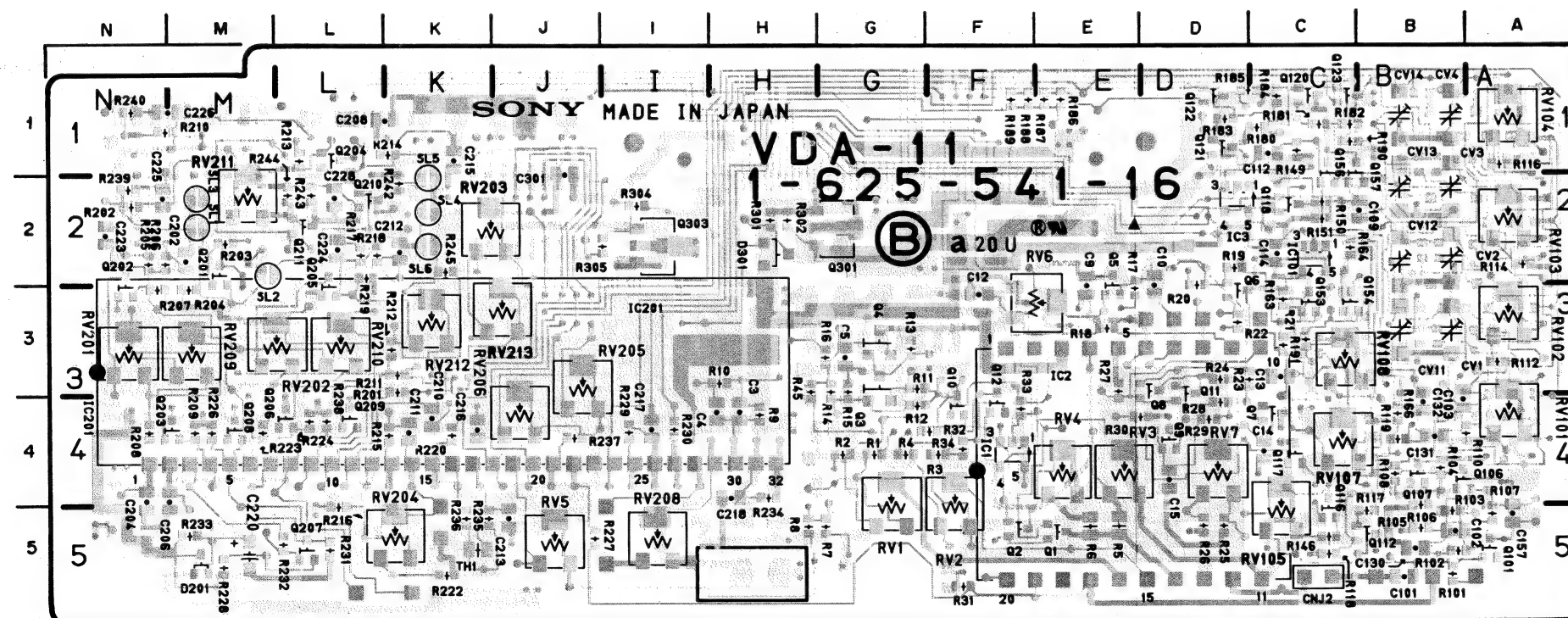
12-62(a)

VDA-11P;CTDM AND C-MODULATOR

S/N;41954 through 44160



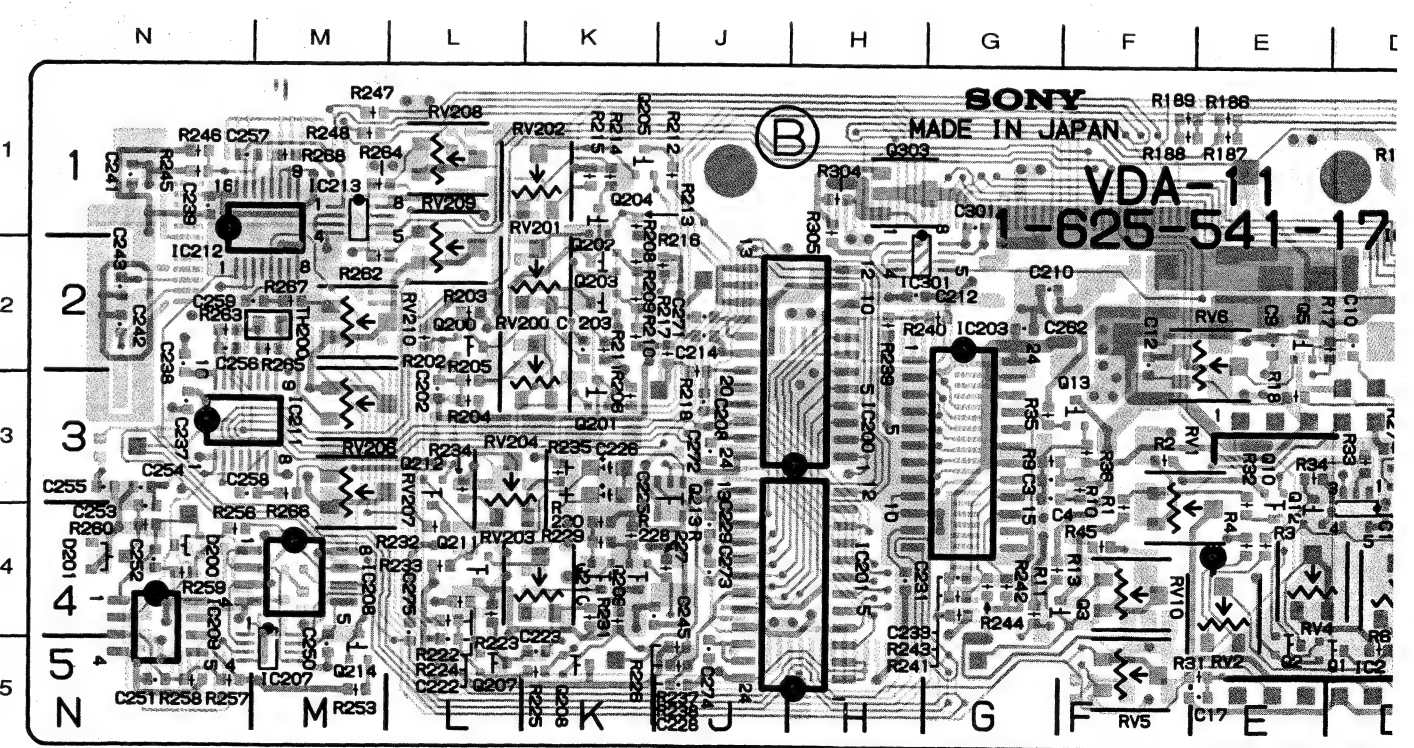
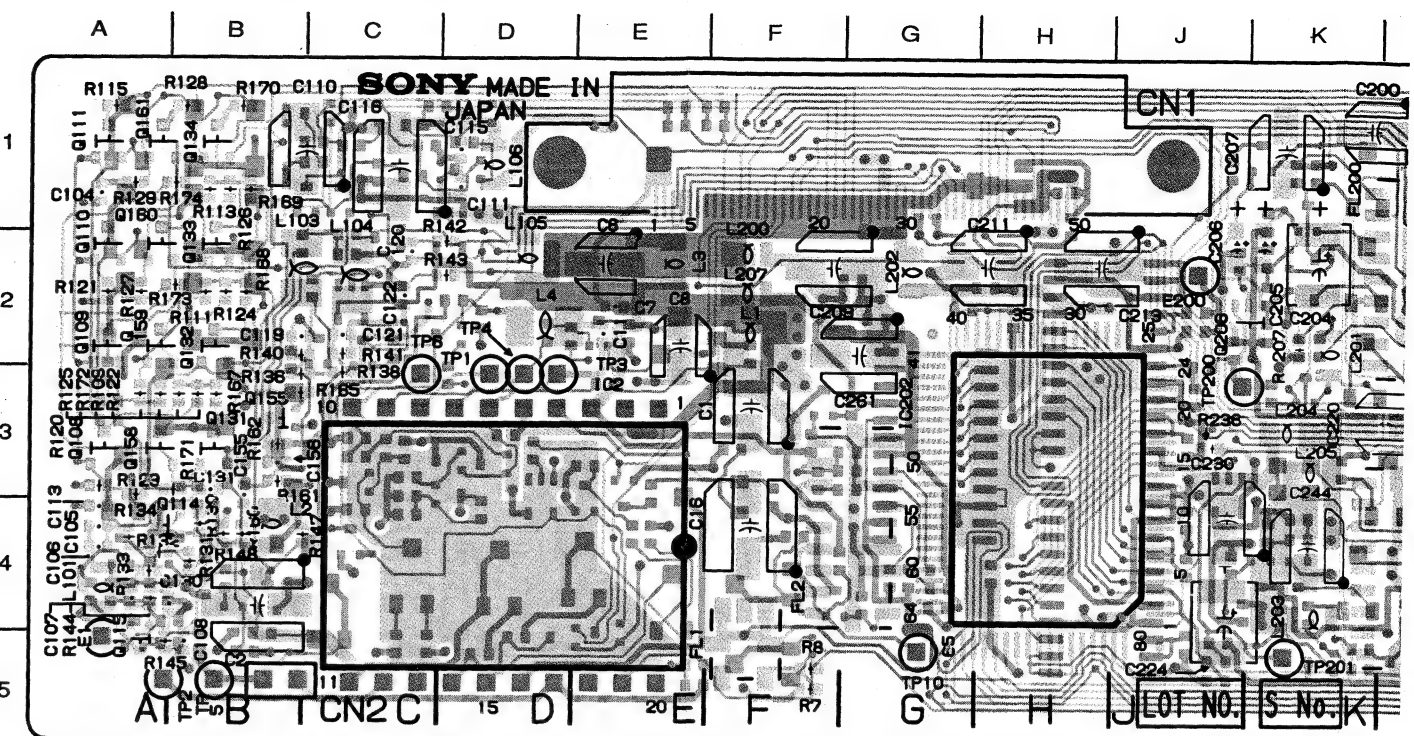
VDA-11P -COMPONENT SIDE-

1-625-541-16
BVW-300AP

VDA-11P -SOLDERING SIDE-

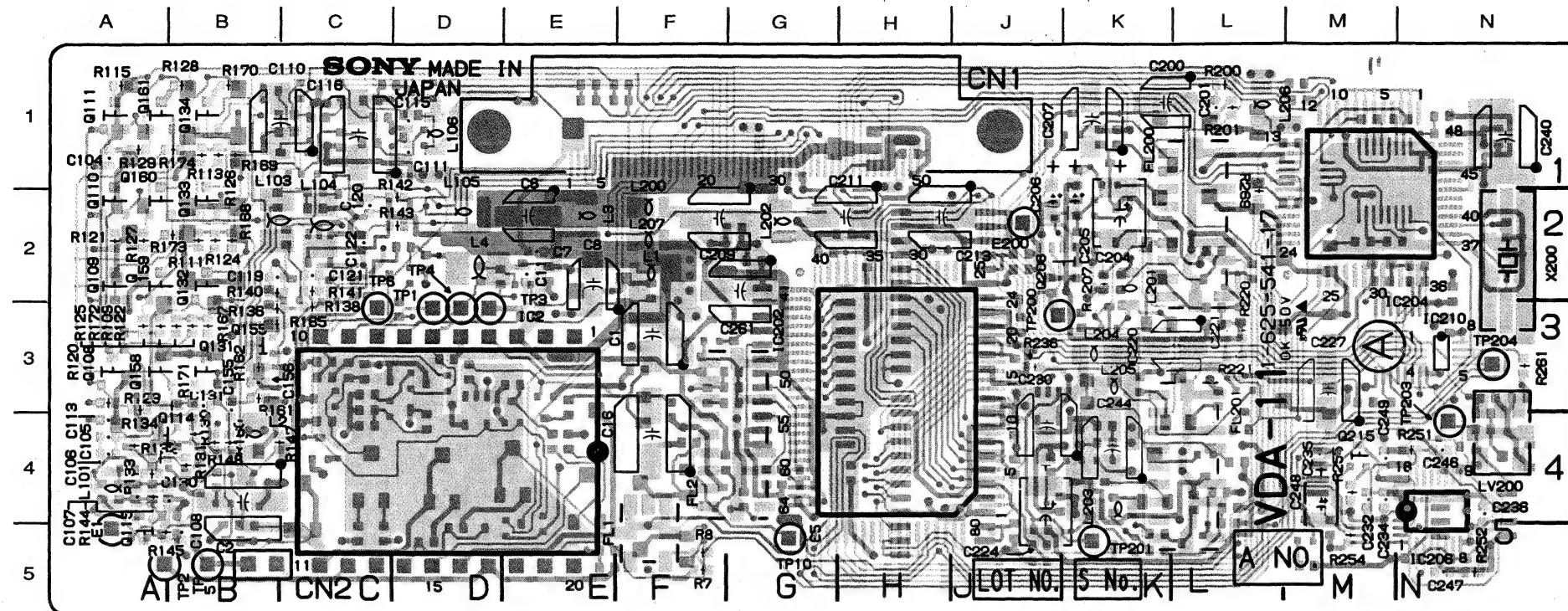
1-625-541-16
BVW-300AP

CN1	G-1	Q117	C-4	TP3	D-3
CN2	B-5	Q118	C-2	TP4	D-3
		Q120	C-1	TP5	B-5
CV1	A-3	Q121	D-1	TP6	C-3
CV2	B-2	Q122	D-1	TP10	G-5
CV3	B-1	Q123	C-1	TP200	J-3
CV4	B-1	Q131	B-3	TP201	K-5
CV11	B-3	Q132	B-2	TP203	N-4
CV12	B-2	Q133	B-2	TP204	N-3
CV13	B-1	Q134	B-1		
CV14	B-1	Q153	C-2	X200	N-2
		Q154	C-2		
D200	N-4	Q155	B-3		
D201	N-4	Q156	C-1		
		Q157	B-1		
E1	A-5	Q158	A-3		
E200	J-2	Q159	A-2		
		Q160	A-2		
FL1	F-5	Q161	A-1		
FL2	G-4	Q200	L-2		
FL200	L-2	Q201	K-3		
FL201	L-4	Q202	K-2		
		Q203	K-2		
IC1	D-4	Q204	K-1		
IC2	E-3	Q205	K-1		
IC3	D-2	Q206	K-2		
IC101	C-2	Q207	L-5		
IC200	H-3	Q208	K-5		
IC201	H-5	Q209	K-4		
IC202	H-3	Q210	K-4		
IC203	H-2	Q211	L-4		
IC204	M-2	Q212	L-3		
IC206	N-5	Q213	J-3		
IC207	M-5	Q214	M-5		
IC208	N-4	Q215	M-4		
IC209	N-4	Q303	H-1		
IC210	N-3				
IC211	N-3	RV1	F-4		
IC212	N-2	RV2	E-4		
IC213	M-1	RV3	D-4		
IC301	H-2	RV4	E-4		
		RV5	F-5		
LV200	N-4	RV6	E-2		
		RV7	C-4		
Q1	D-5	RV10	F-4		
Q2	E-5	RV101	A-3		
Q3	F-4	RV102	A-2		
Q5	E-2	RV103	A-1		
Q6	D-2	RV104	A-1		
Q7	C-3	RV105	C-4		
Q8	D-3	RV107	B-4		
Q9	D-3	RV108	B-3		
Q10	E-3	RV200	K-3		
Q11	D-3	RV201	K-2		
Q12	E-4	RV202	K-1		
Q13	F-3	RV203	K-4		
Q101	A-5	RV204	L-3		
Q106	A-4	RV206	M-3		
Q107	B-4	RV207	M-3		
Q108	A-3	RV208	L-1		
Q109	A-2	RV209	L-2		
Q110	A-2	RV210	M-2		
Q111	A-1				
Q112	B-4	TH200	M-2		
Q114	A-4				
Q115	A-5	TP1	D-3		
Q116	B-4	TP2	A-5		



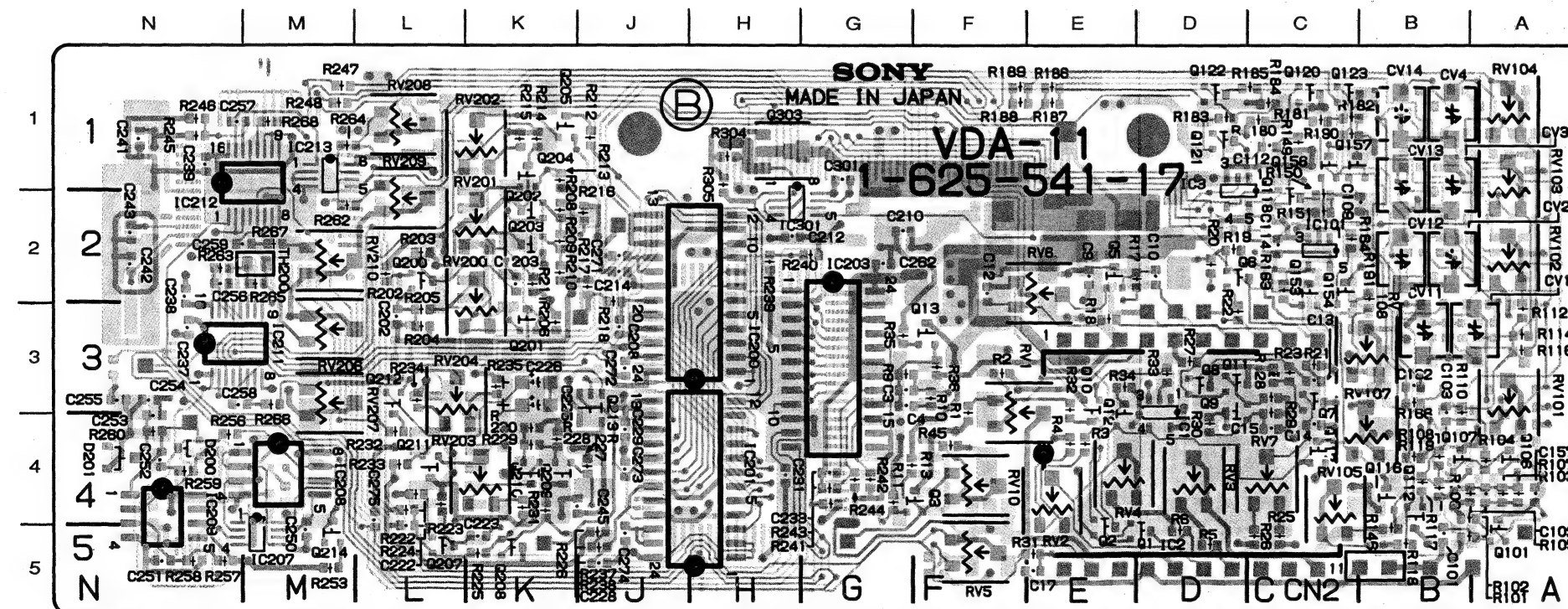
VDA-11P;CTDM AND C-MODULATOR

S/N;44161 and higher



VDA-11P -COMPONENT SIDE-

1-625-541-17
BVW-300AP

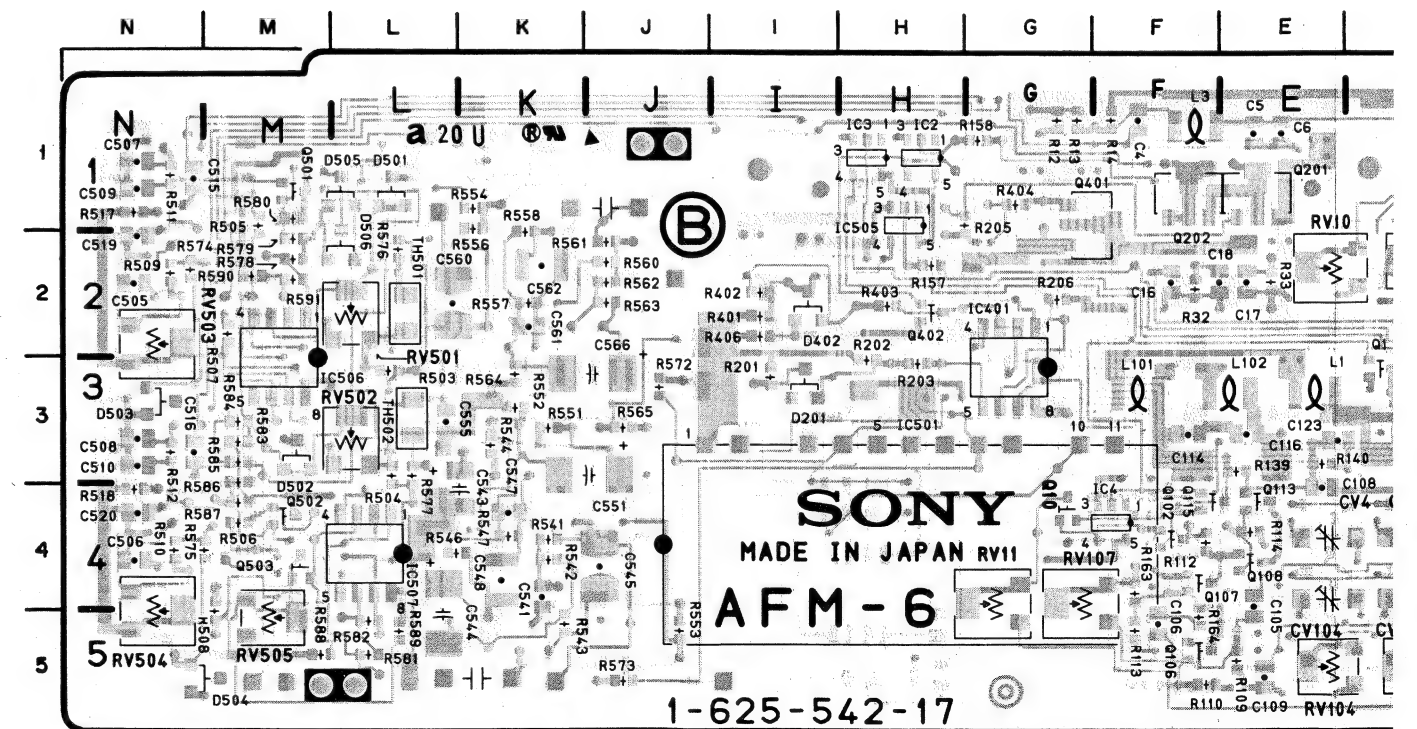
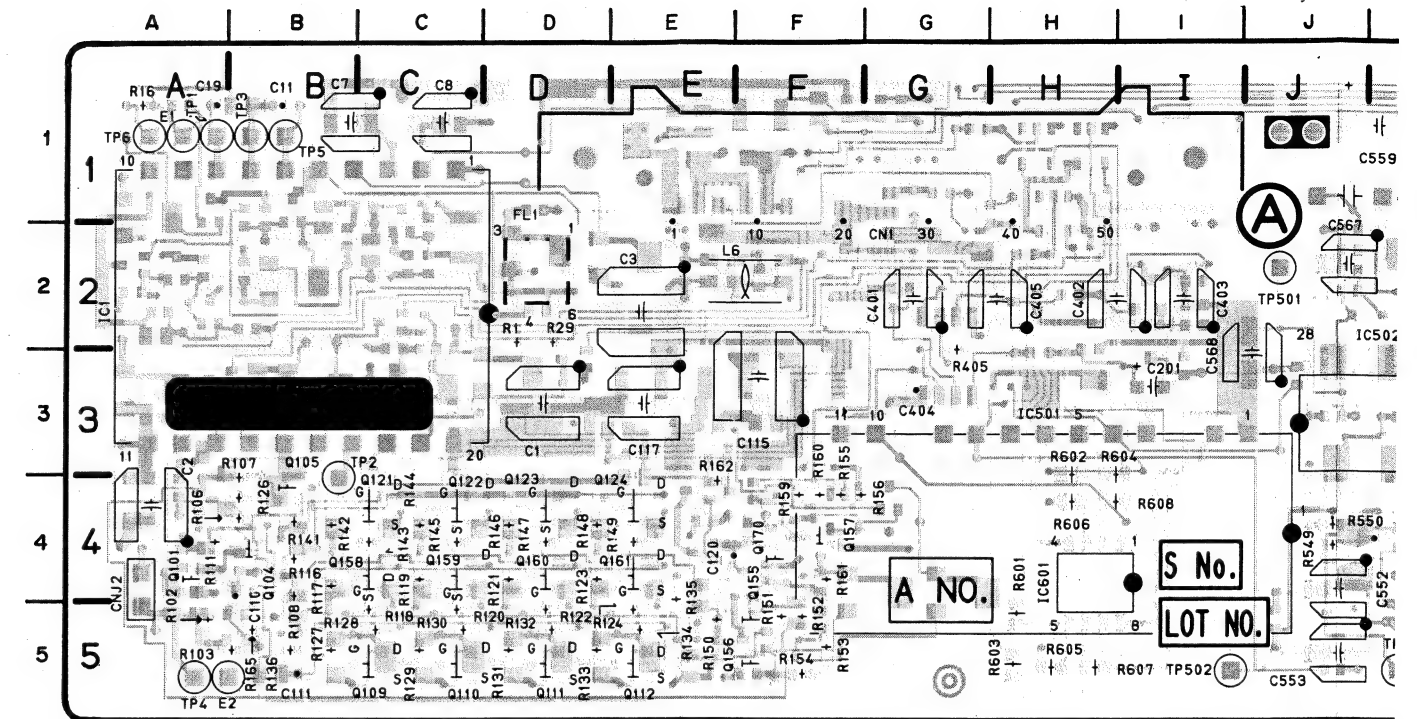


VDA-11P -SOLDERING SIDE-

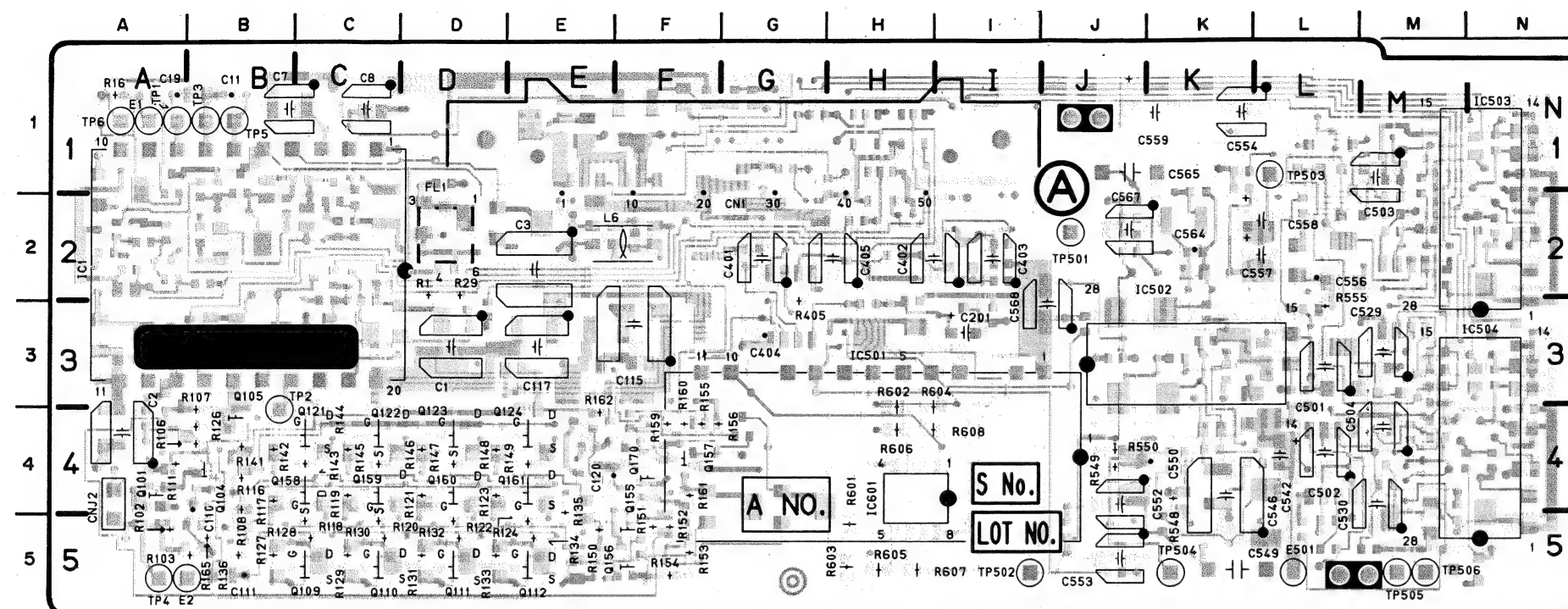
1-625-541-17
BVW-300AP

AFM-6P;Y-MODULATOR,AFM

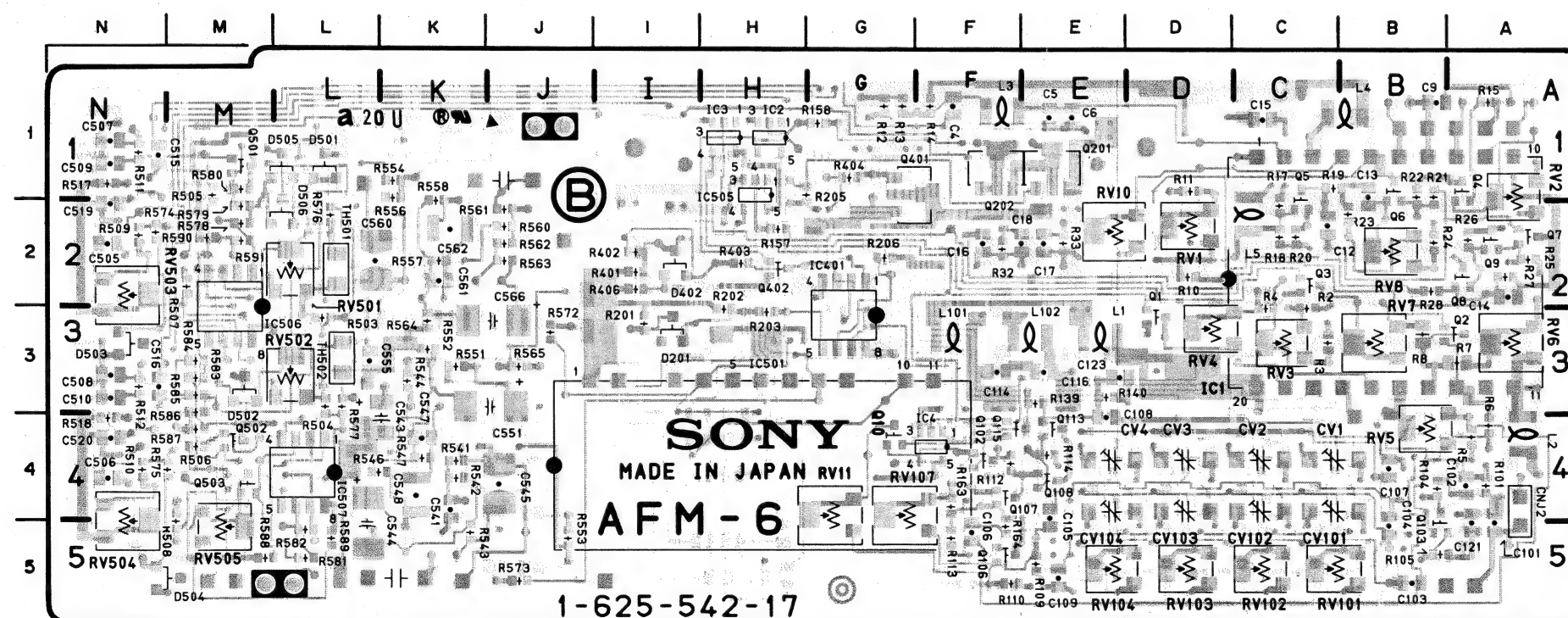
CN1	G-2	Q104	A-4	TP2	B-3
CN2	C-5	Q105	B-3	TP3	B-1
		Q106	F-5	TP4	A-5
CNJ2	A-5	Q107	F-4	TP5	B-1
		Q108	E-4	TP6	A-1
CV1	C-4	Q109	C-5	TP501	J-2
CV2	C-4	Q110	C-5	TP502	I-5
CV3	D-4	Q111	D-5	TP503	L-1
CV4	E-4	Q112	E-5	TP504	K-5
CV101	C-5	Q113	E-4	TP505	M-5
CV102	C-5	Q115	F-4	TP506	M-5
CV103	D-4	Q121	C-4		
CV104	E-4	Q122	C-4		
		Q123	D-4		
D201	I-3	Q124	D-4		
D402	I-2	Q155	F-4		
D501	L-1	Q156	E-5		
D502	M-3	Q157	F-4		
D503	N-3	Q158	B-4		
D504	M-5	Q159	C-4		
D505	L-1	Q160	D-4		
D506	L-2	Q161	D-4		
		Q170	F-4		
E1	A-1	Q201	E-1		
E2	A-5	Q202	F-2		
E501	L-5	Q401	F-1		
		Q402	H-2		
FL1	D-2	Q501	M-1		
		Q502	M-4		
		Q503	M-4		
IC1	A-2				
IC2	H-1				
IC3	H-1	RV1	D-2		
IC4	F-4	RV2	A-1		
IC401	G-3	RV3	C-3		
IC501	H-3	RV4	D-3		
IC502	J-2	RV5	B-4		
IC503	N-1	RV6	A-3		
IC504	N-3	RV7	B-2		
IC505	H-1	RV8	B-2		
IC506	L-3	RV10	E-1		
IC507	L-4	RV101	C-5		
IC601	I-4	RV102	C-5		
		RV103	D-5		
		RV104	E-5		
Q1	D-2	RV107	F-4		
Q2	A-3	RV501	L-2		
Q3	C-2	RV502	L-3		
Q4	A-1	RV503	N-2		
Q5	C-1	RV504	N-5		
Q6	B-2	RV505	M-5		
Q7	A-2				
Q8	A-2				
Q9	A-2	TH501	L-2		
Q101	A-4	TH502	L-3		
Q102	F-4				
Q103	B-5	TP1	A-1		



AFM-6P;Y-MODULATOR,AFM

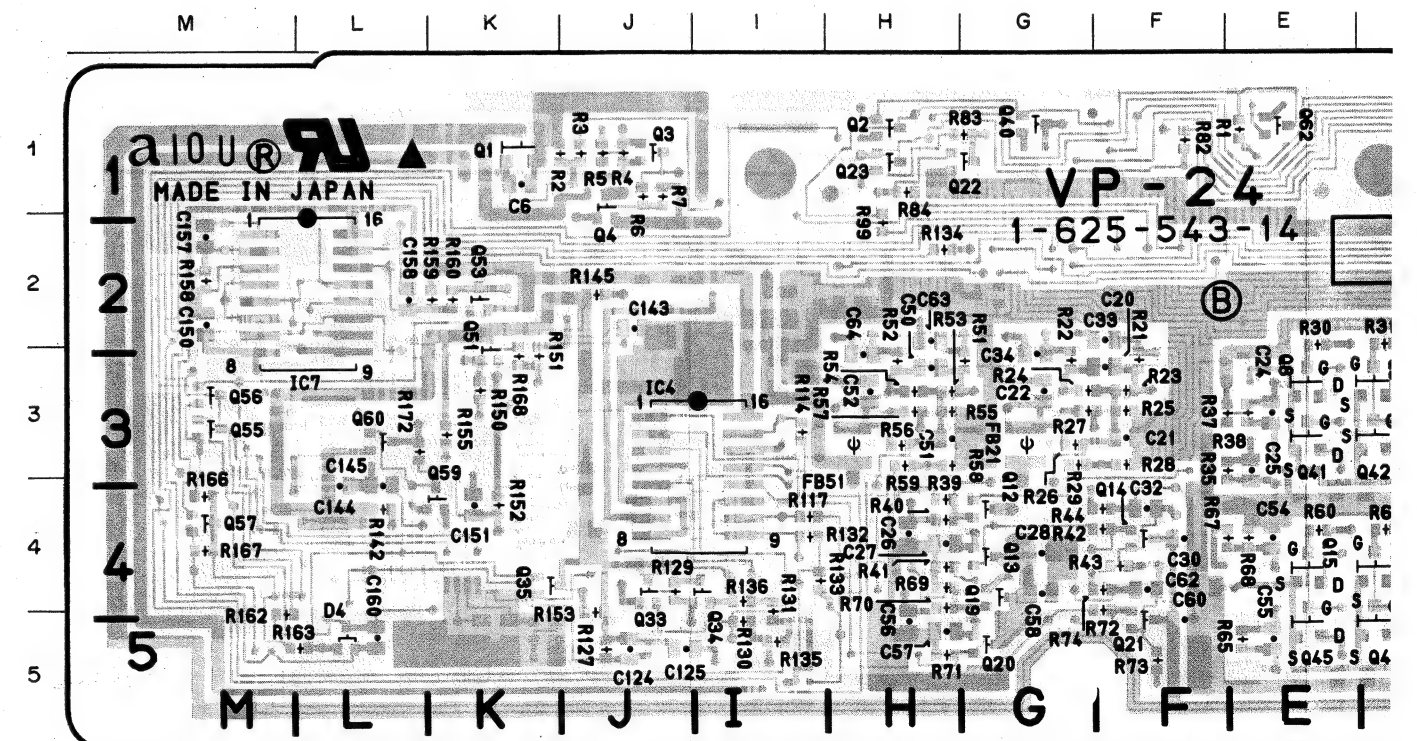
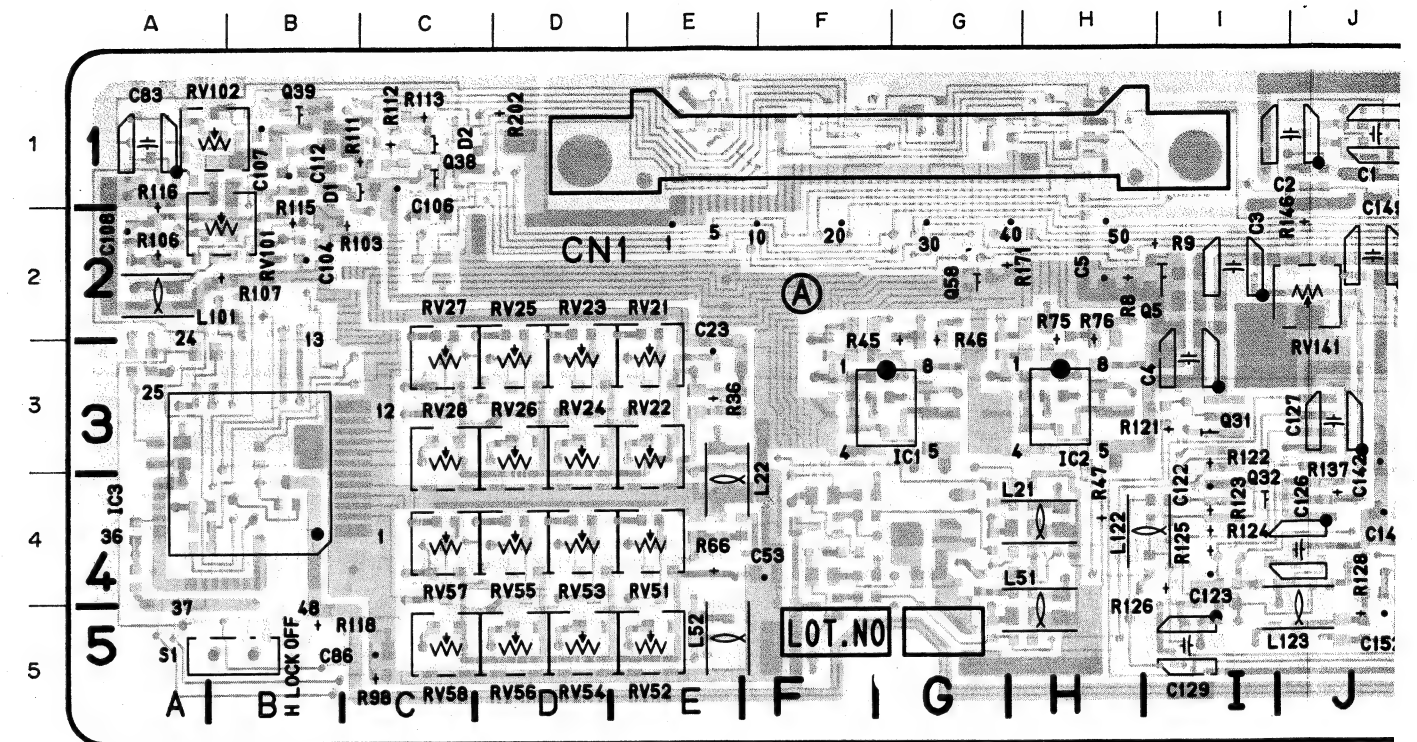


AFM-6P -COMPONENT SIDE-
1-625-542-17
BVW-300AP

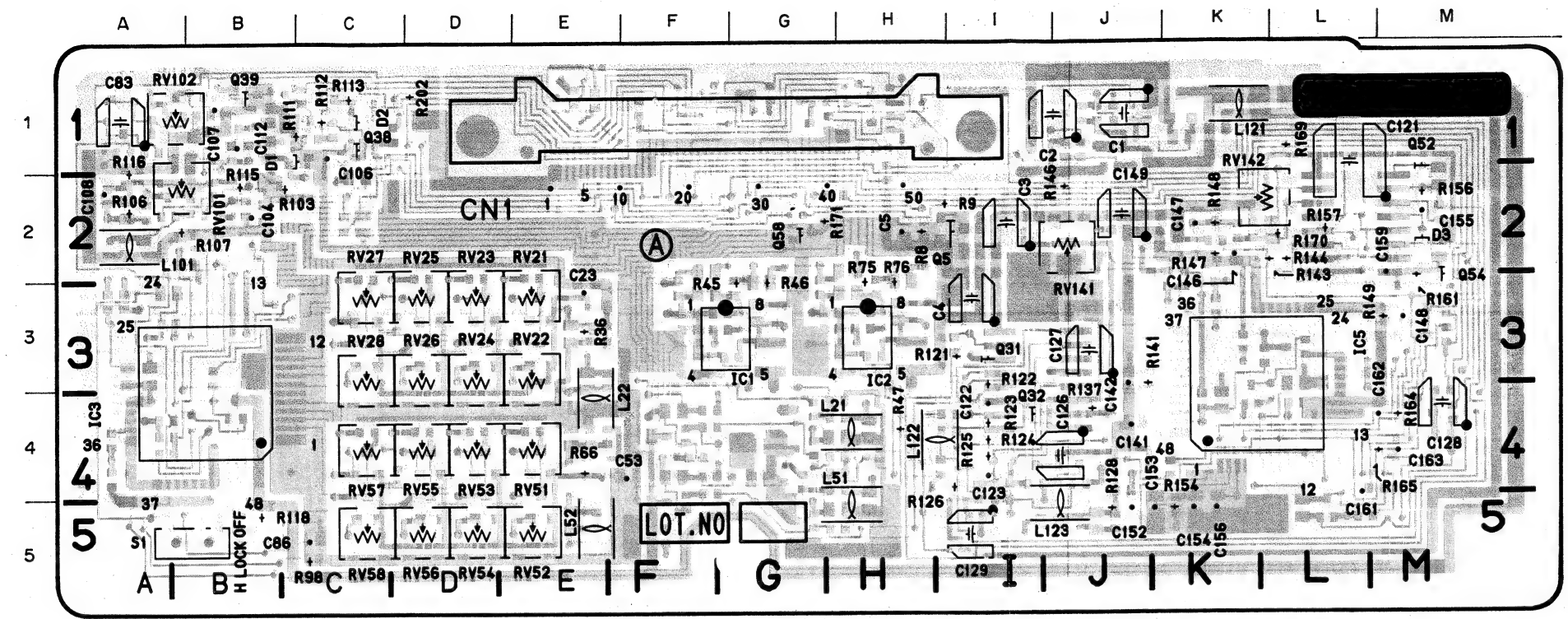


AFM-6P -SOLDERING SIDE-
1-625-542-17
BVW-300AP

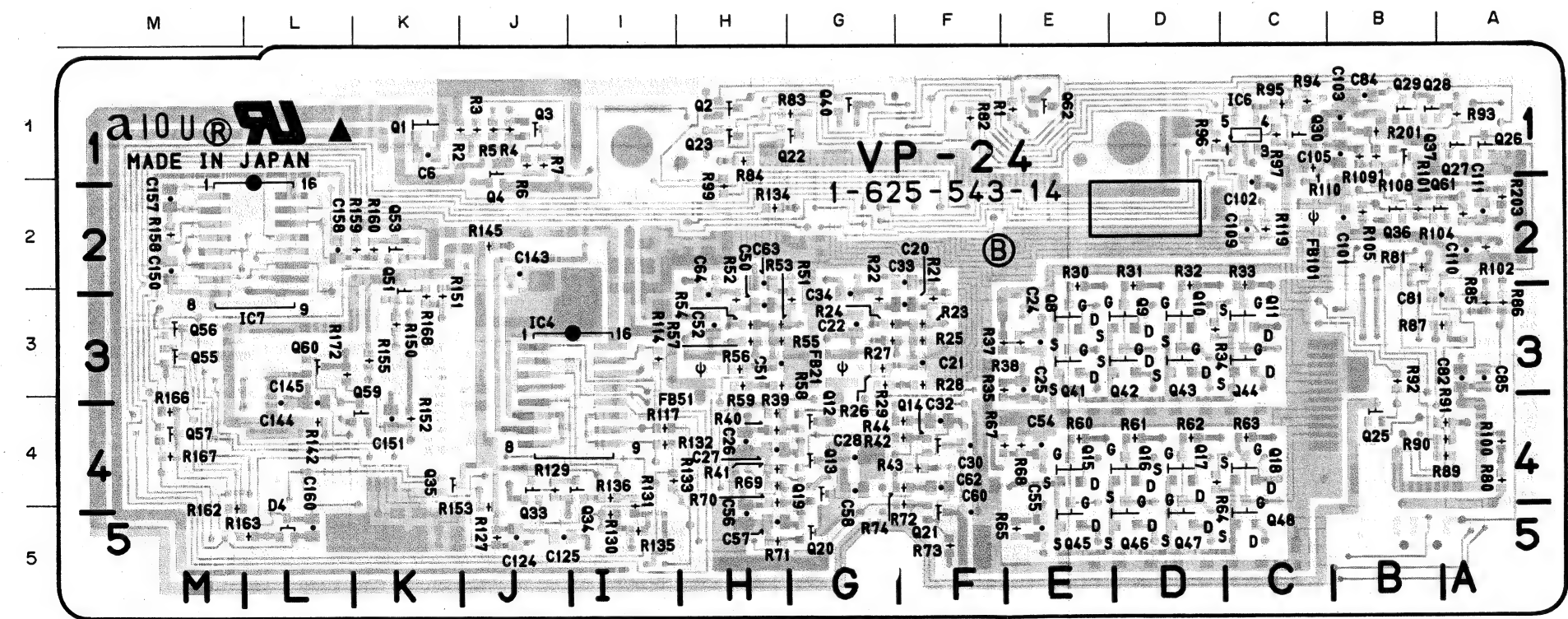
CN1	D-2	Q42	D-3
		Q43	D-3
D1	C-1	Q44	C-3
D2	C-1	Q45	E-5
D3	M-2	Q46	D-5
D4	L-4	Q47	D-5
		Q48	C-5
FB21	G-3	Q51	K-2
		Q52	M-1
IC1	G-3	Q53	K-2
IC2	H-3	Q54	M-3
IC3	A-4	Q55	M-3
IC4	J-3	Q56	M-3
IC5	G-5	Q57	M-4
IC6	C-1	Q58	G-2
IC7	L-3	Q59	K-3
		Q60	L-3
Q1	K-1	Q61	A-2
Q2	H-1	Q62	E-1
Q3	A-4		
Q4	J-2	RV21	E-2
Q5	I-2	RV23	D-2
Q8	E-3	RV25	D-2
Q9	D-3	RV27	C-2
Q10	D-3	RV51	E-4
Q11	C-3	RV53	D-4
Q12	G-4	RV55	D-4
Q13	G-4	RV57	C-4
Q14	F-4	RV101	B-2
Q15	E-4	RV102	B-1
Q16	D-4	RV141	J-3
Q17	D-4		
Q18	C-4	S1	A-5
Q19	G-4		
Q20	G-5		
Q21	F-5		
Q22	G-1		
Q23	H-1		
Q25	B-4		
Q26	A-1		
Q27	A-1		
Q28	A-1		
Q29	B-1		
Q30	C-1		
Q31	I-3		
Q32	I-4		
Q33	J-5		
Q34	I-5		
Q35	K-4		
Q36	B-2		
Q37	B-1		
Q38	C-1		
Q39	B-1		
Q40	G-1		
Q41	E-3		



VP-24P;VIDEO PB

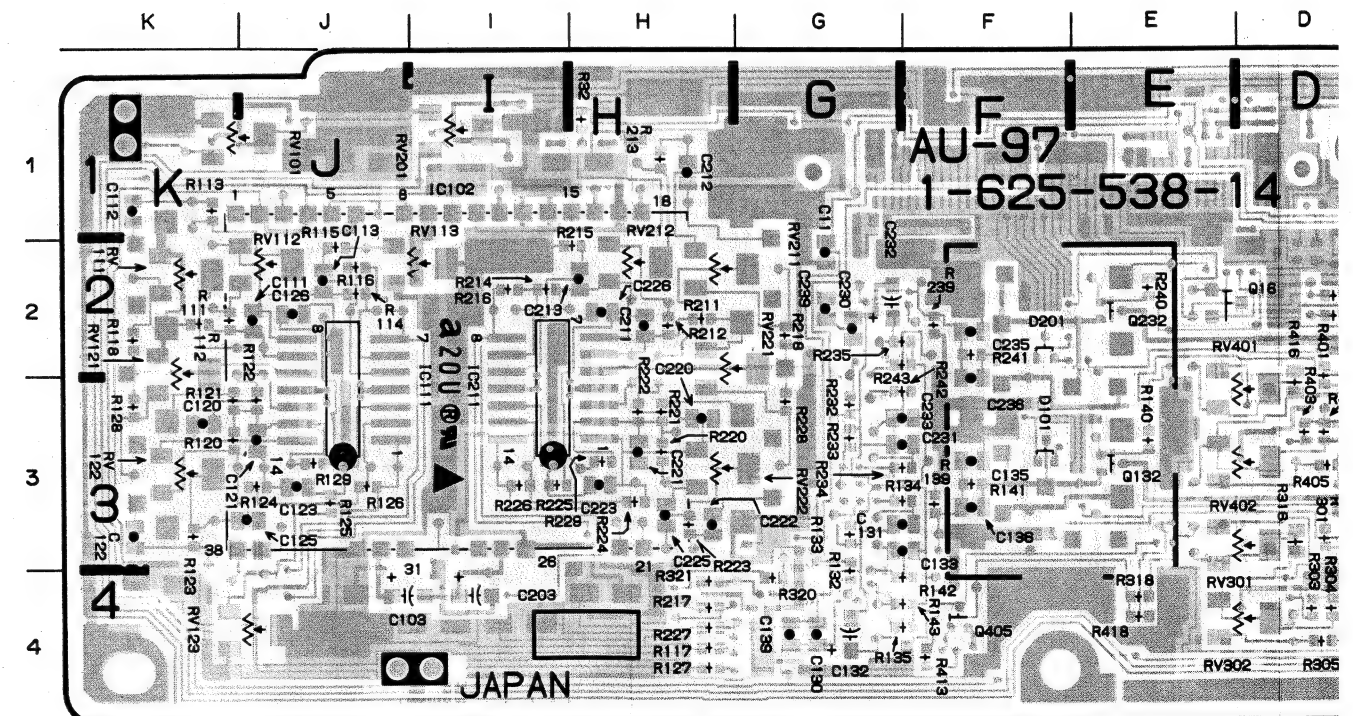
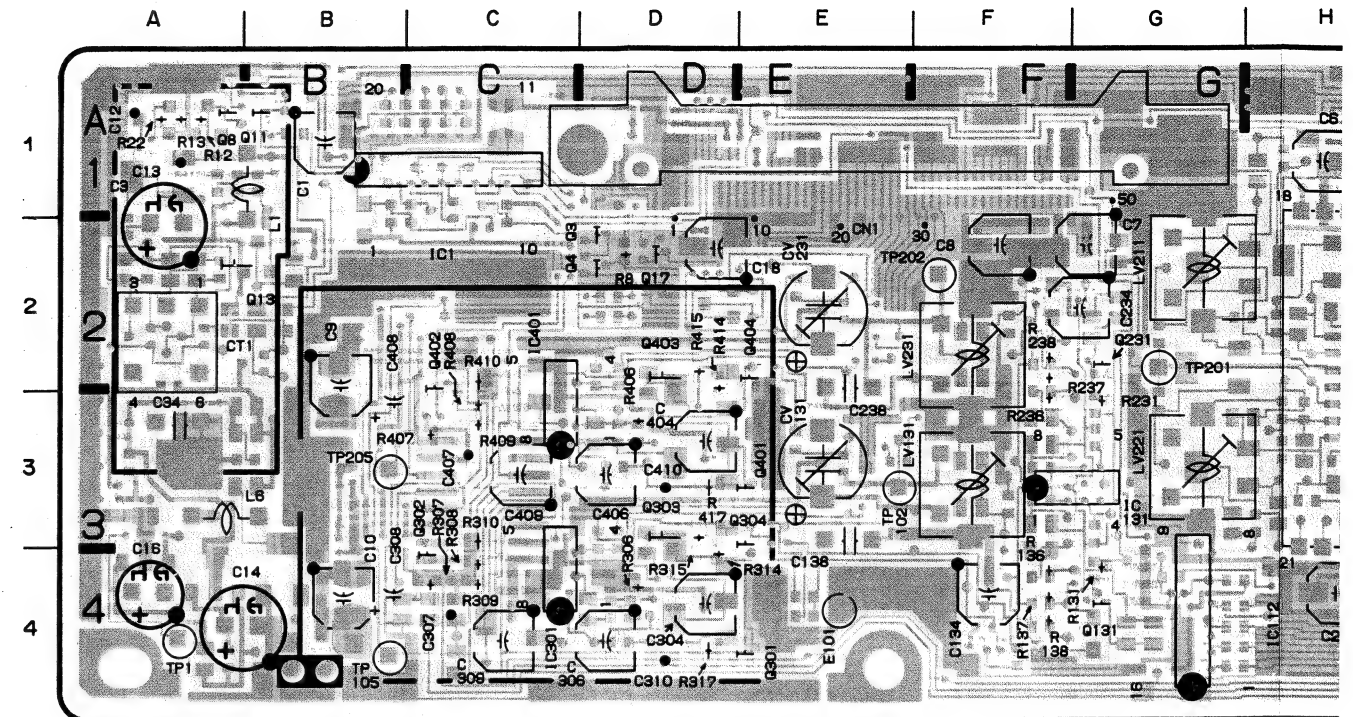


VP-24P -COMPONENT SIDE-
1-625-543-14
BVW-300AP



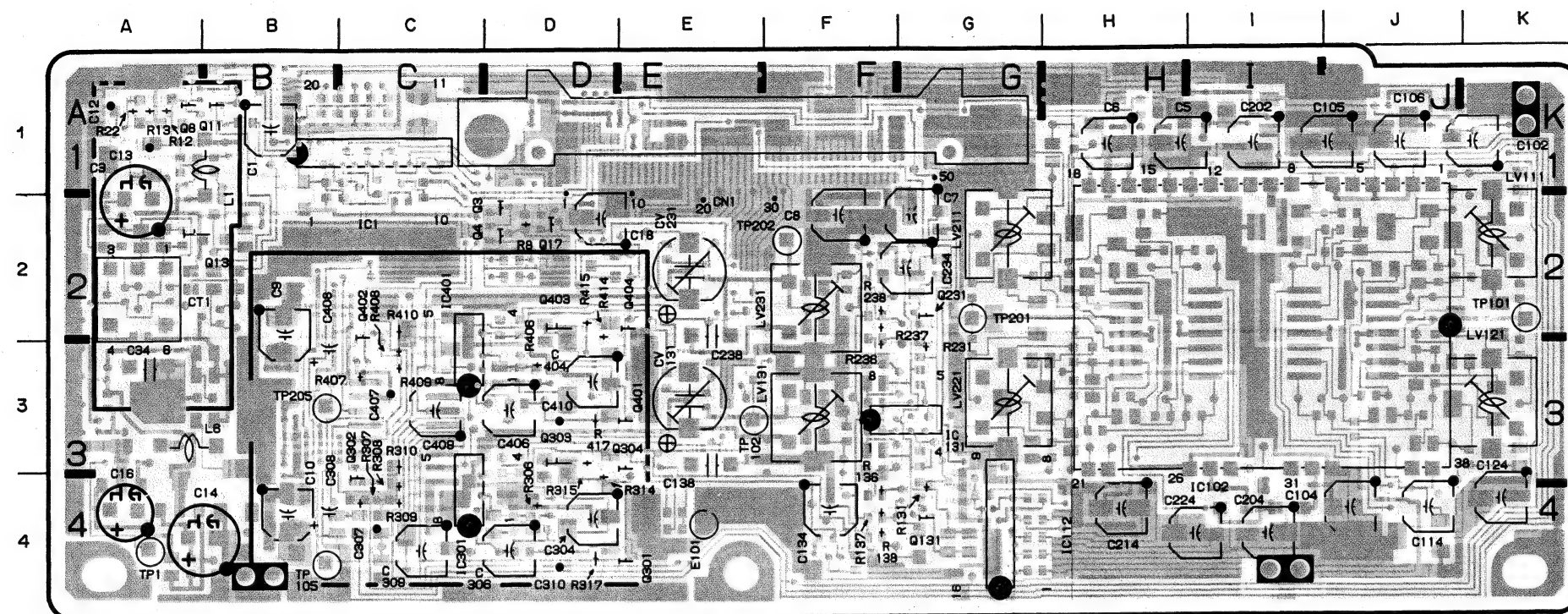
VP-24P -SOLDERING SIDE-
1-625-543-14
BVW-300AP

AU-97P;AUDIO REC/PB



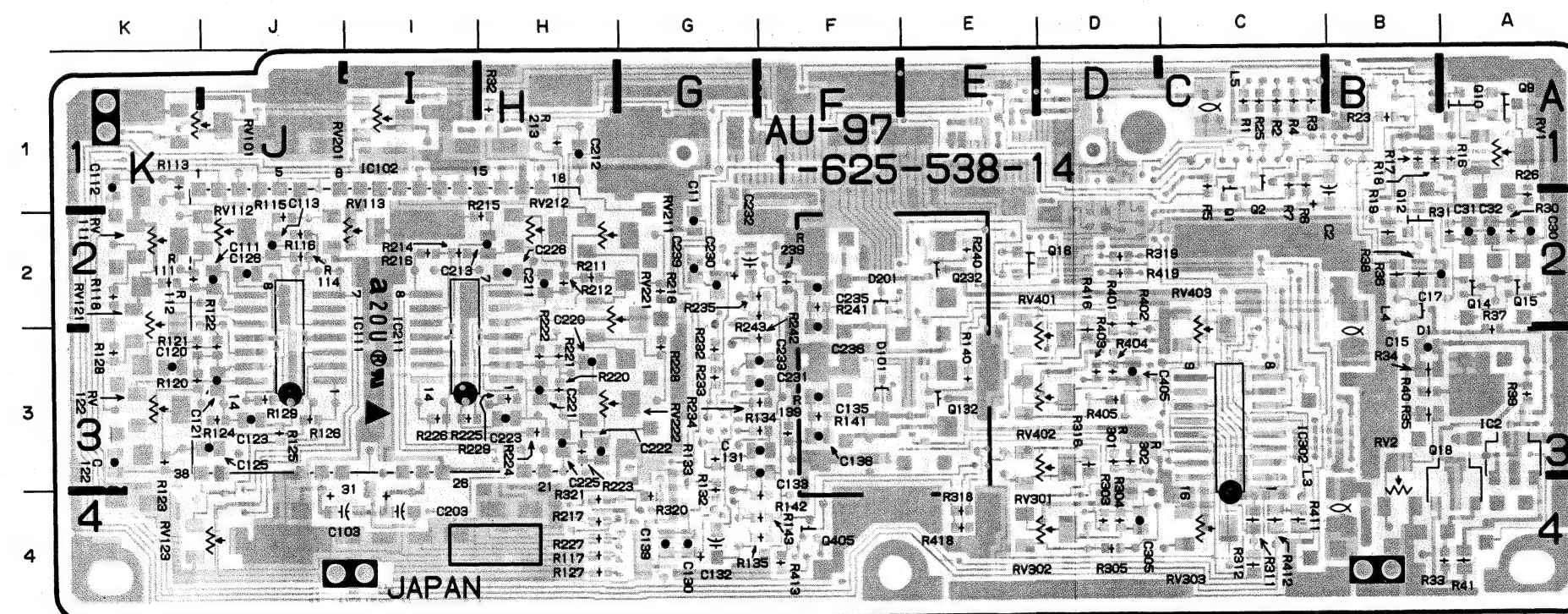
CN1	E-2	RV101	J-1
		RV111	K-2
CT1	A-2	RV112	J-2
		RV113	I-2
CV131	E-3	RV121	K-2
CV231	E-2	RV122	K-3
		RV123	K-4
D1	B-3	RV201	J-1
D101	F-3	RV211	G-2
D201	F-2	RV212	H-2
		RV221	G-2
E101	E-4	RV222	G-3
		RV302	E-4
IC1	C-2	RV303	C-4
IC2	A-3	RV402	E-3
IC102	I-4	RV403	C-2
IC111	I-2		
IC112	H-4	TP1	A-4
IC131	G-3	TP101	K-2
IC211	I-2	TP102	E-3
IC301	C-4	TP105	B-4
IC302	C-3	TP201	G-2
IC401	C-2	TP202	E-2
		TP205	B-3
LV111	K-1		
LV121	K-3		
LV131	F-3		
LV211	G-2		
LV221	G-3		
LV231	F-2		
Q1	C-2		
Q2	C-2		
Q3	C-2		
Q4	C-2		
Q8	A-1		
Q9	A-1		
Q10	A-1		
Q11	B-1		
Q12	B-2		
Q13	B-2		
Q14	A-2		
Q15	A-2		
Q16	D-2		
Q17	D-2		
Q18	B-3		
Q131	G-4		
Q132	E-3		
Q231	G-2		
Q232	E-2		
Q302	C-3		
Q402	C-2		
RV1	A-1		
RV2	B-3		

AU-97P;AUDIO REC/PB



AU-97P -COMPONENT SIDE-

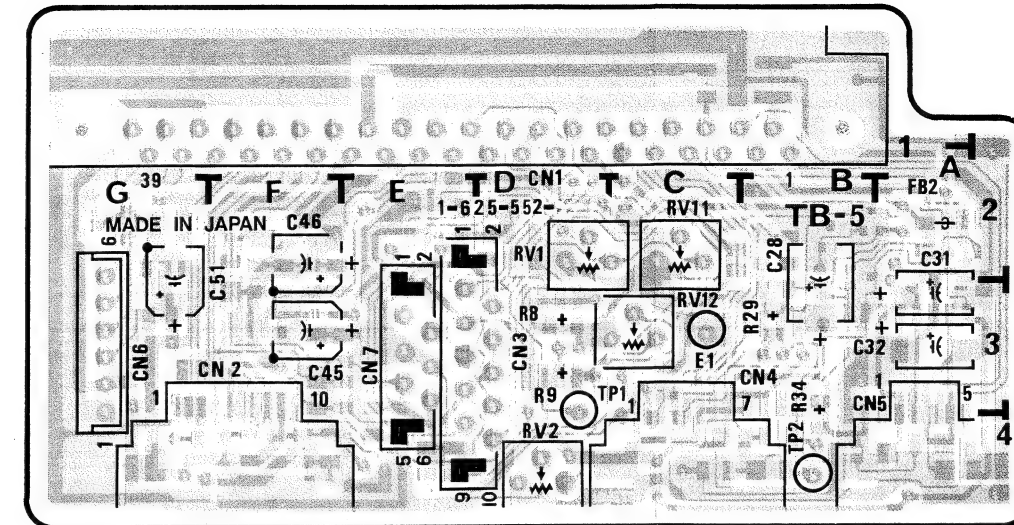
1-625-538-14
BVW-300AP



AU-97P -SOLDERING SIDE-

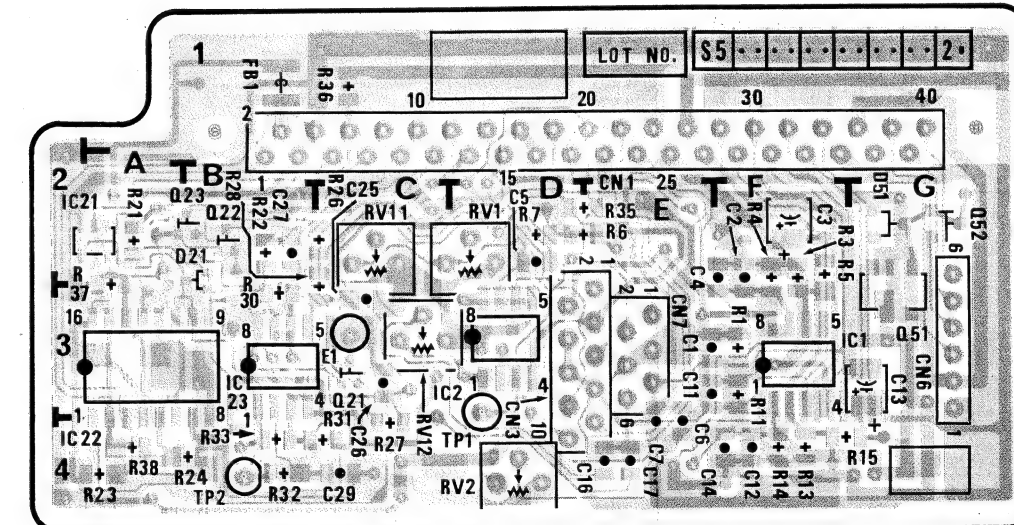
1-625-538-14
BVW-300AP

TB-5; TERMINAL BOARD, AUDIO CONF



TB-5 -COMPONENT SIDE-

1-625-552-14
BVW-300AP

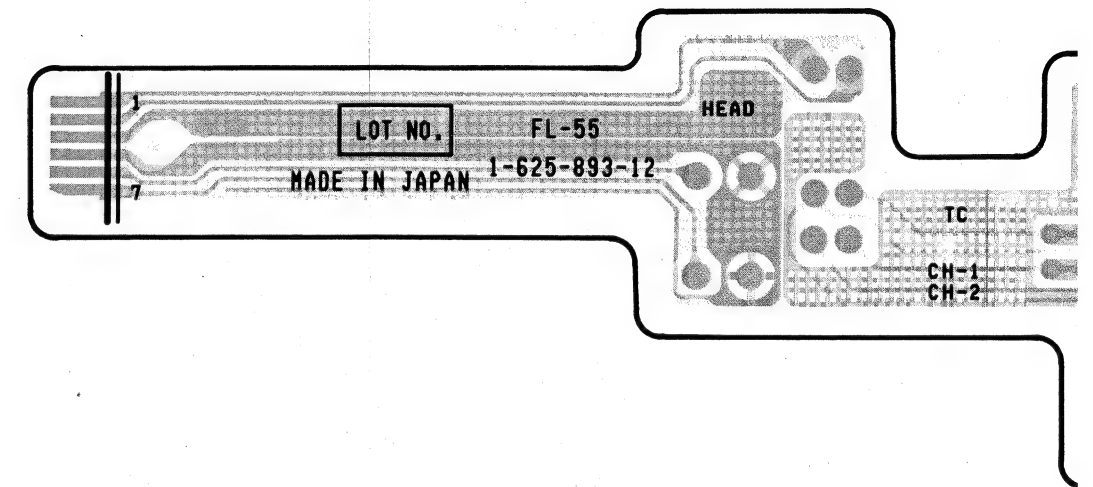


TB-5 -SOLDERING SIDE-

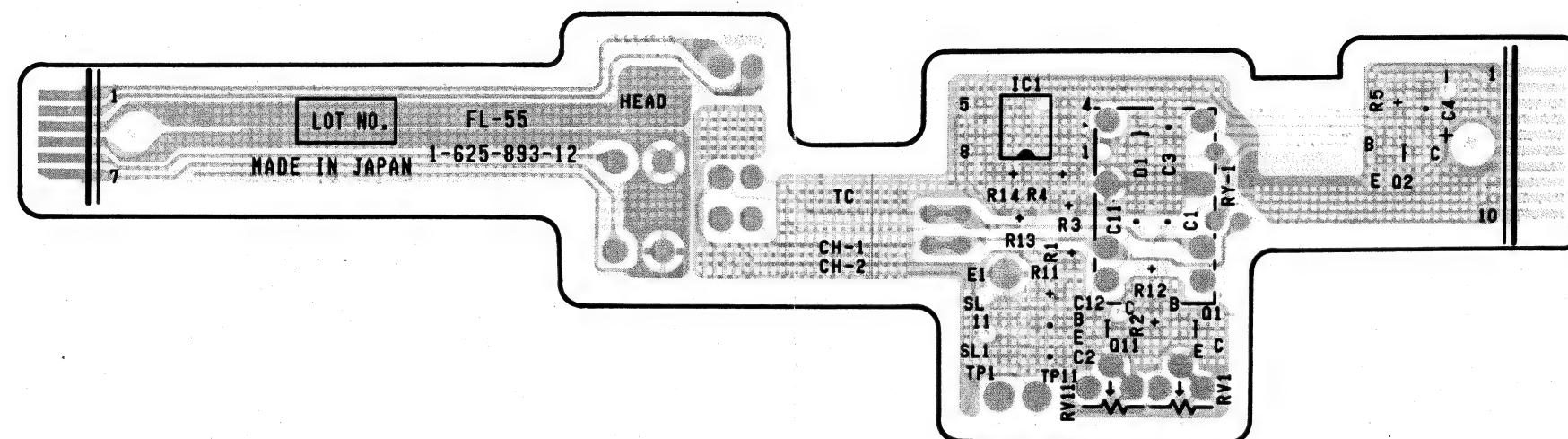
1-625-552-14
BVW-300AP

FL-55P FL-55P

FL-55P;AUDIO HEAD AMP,RELAY BOARD



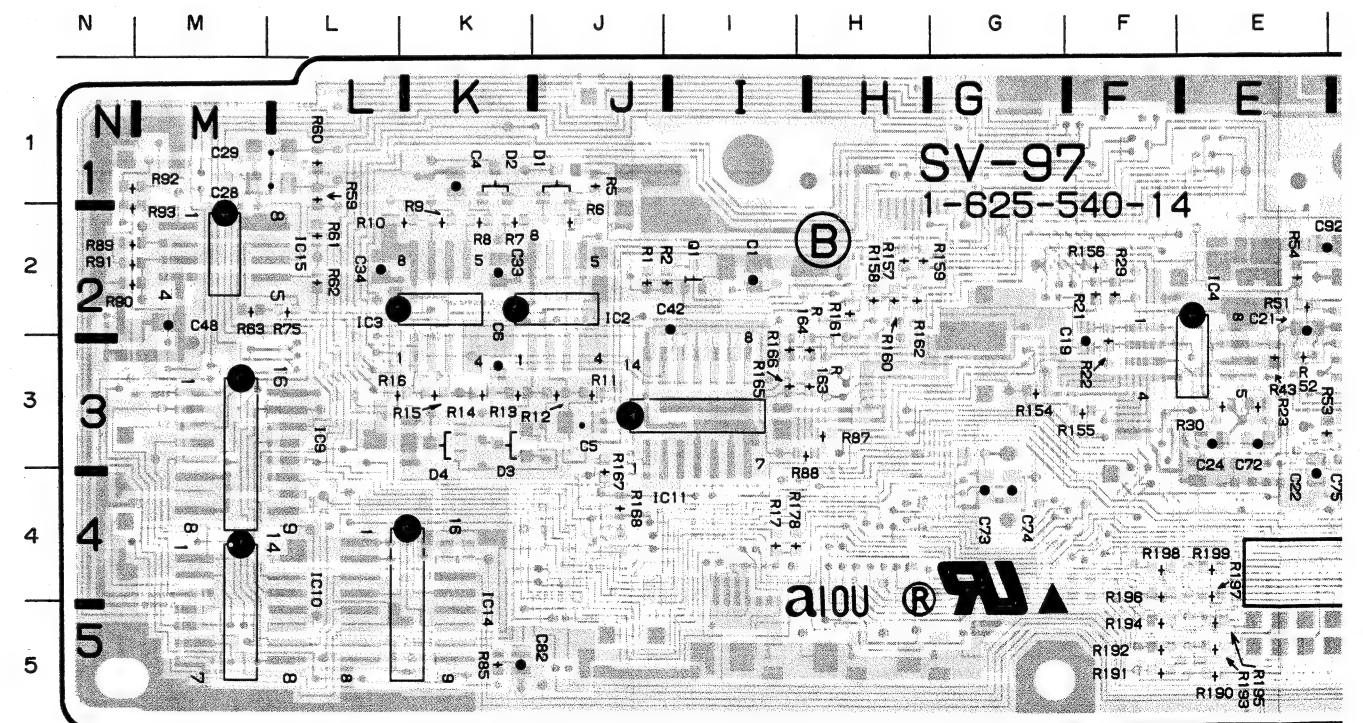
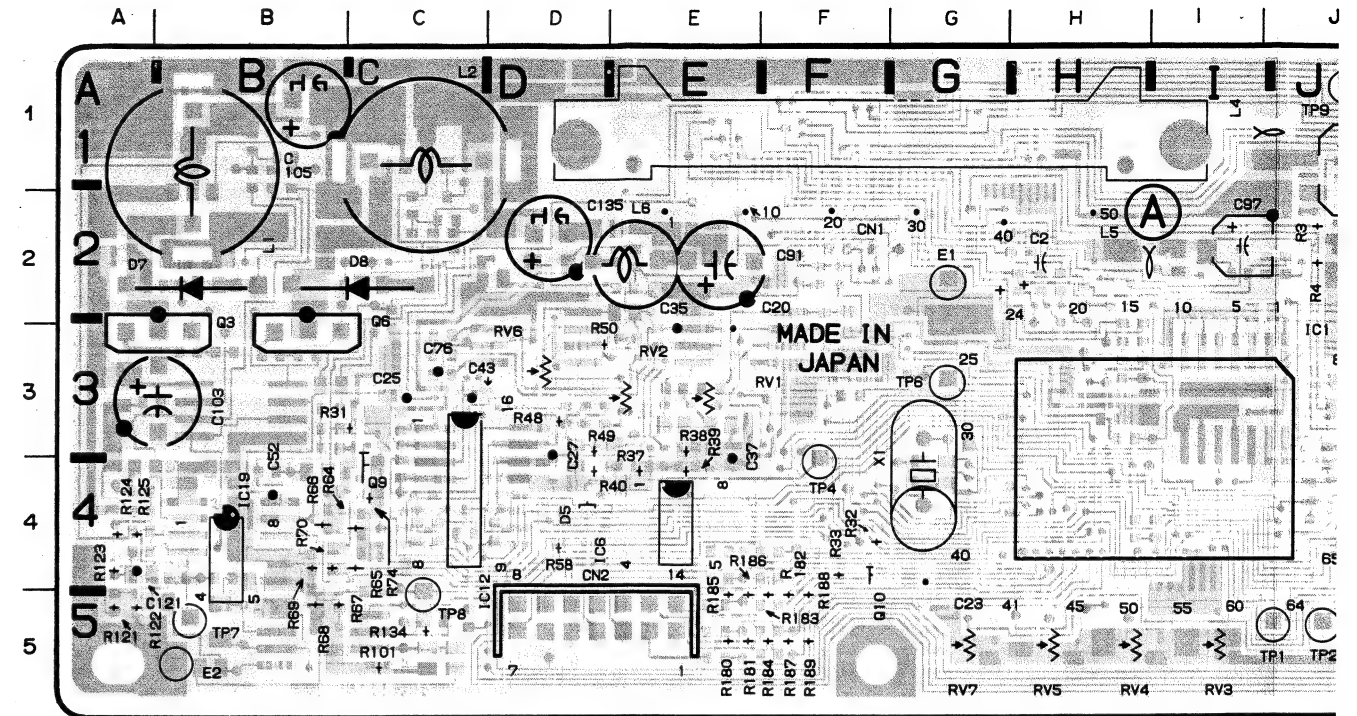
FL-55P;AUDIO HEAD AMP,RELAY BOARD



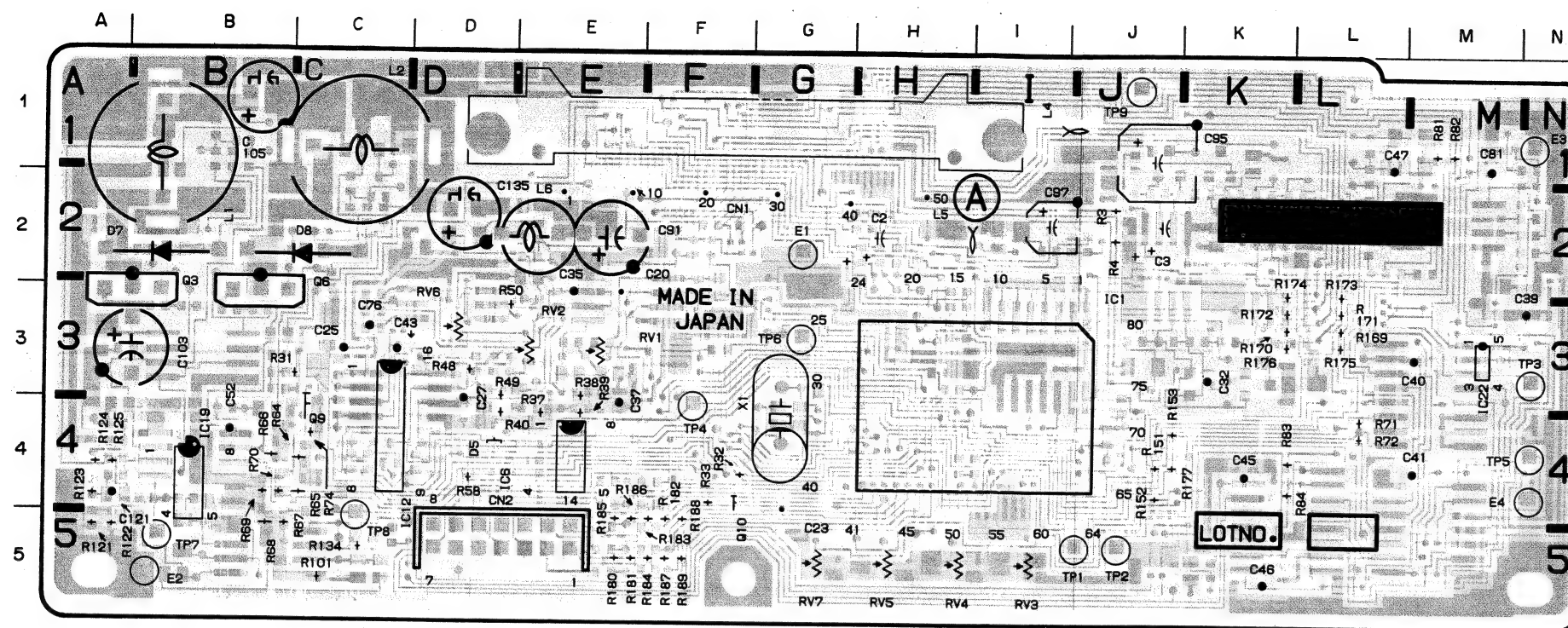
FL-55P -COMPONENT SIDE-
1-625-882-12
BVW-300AP

SV-97AP;DRUM/CAPSTAN SERVO

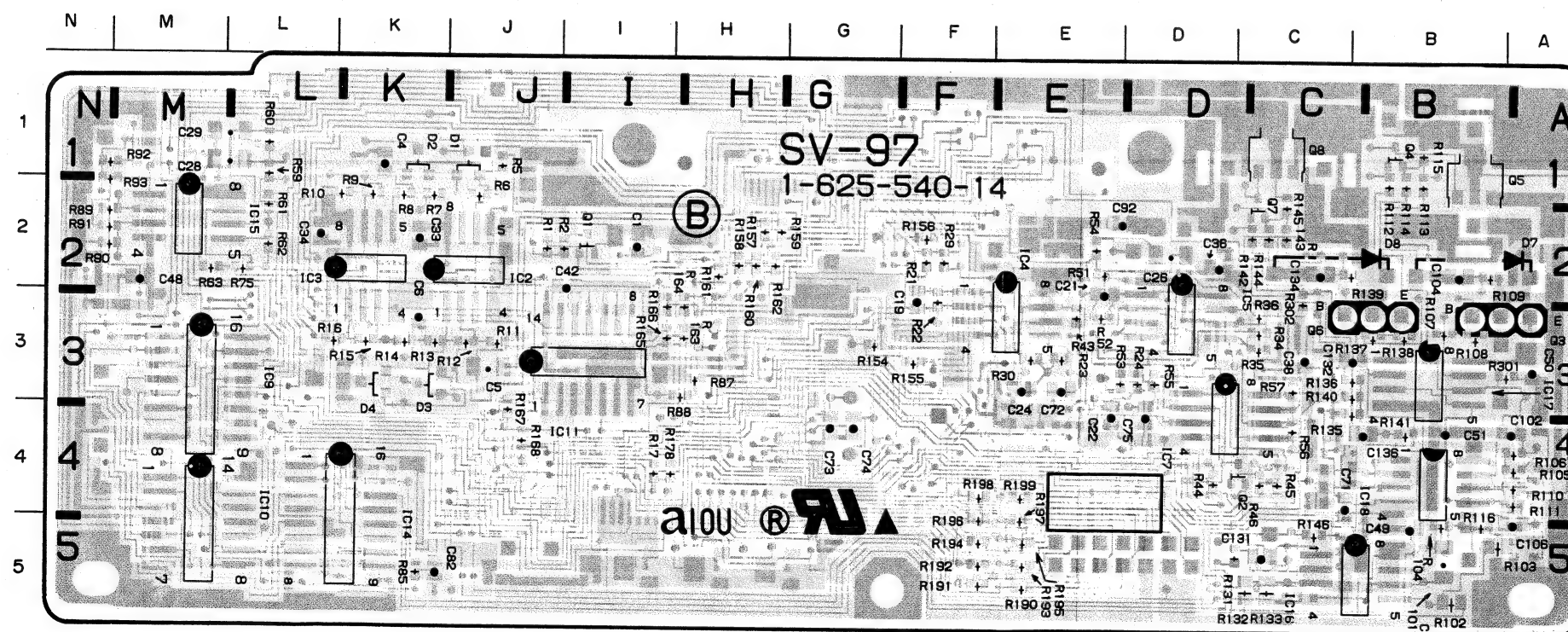
CN1	F-2	TP3	N-3
CN2	D-4	TP4	F-4
		TP5	M-4
D1	J-1	TP6	G-3
D2	K-1	TP7	B-5
D3	K-3	TP8	C-5
D4	K-4	TP9	J-1
D5	D-4		
D7	A-2	X1	F-3
D8	C-2		
E1	G-2		
E2	B-5		
E3	N-1		
E4	N-4		
IC1	J-3		
IC2	J-2		
IC3	L-2		
IC4	E-2		
IC5	D-3		
IC6	D-4		
IC7	D-4		
IC9	L-3		
IC10	L-4		
IC11	J-4		
IC12	C-4		
IC14	K-5		
IC15	L-2		
IC16	C-5		
IC17	A-3		
IC18	B-4		
IC19	B-4		
IC22	M-3		
Q1	I-2		
Q2	D-4		
Q3	B-3		
Q4	B-1		
Q5	A-1		
Q6	C-3		
Q7	C-2		
Q8	C-1		
Q9	C-4		
Q10	F-5		
RV1	F-3		
RV2	E-3		
RV3	I-5		
RV4	H-5		
RV6	D-3		
RV7	G-5		
TP1	J-5		
TP2	J-5		



SV-97AP;DRUM/CAPSTAN SERVO



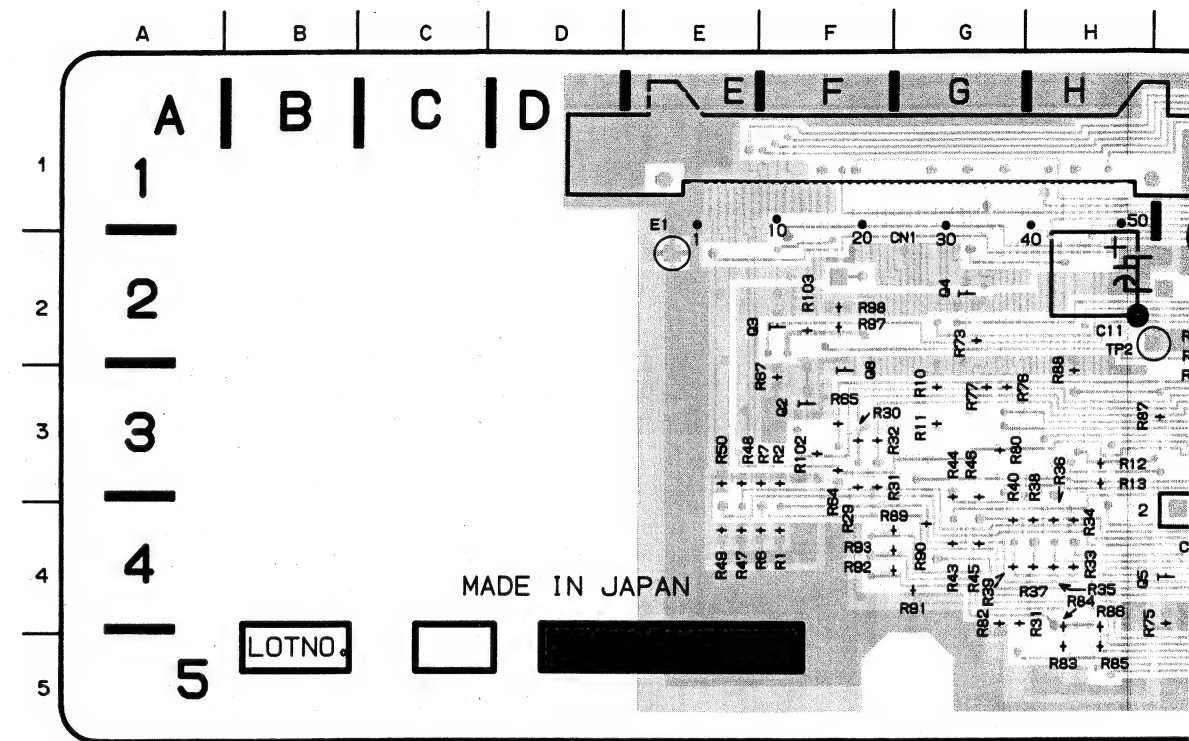
SV-97AP -COMPONENT SIDE-
1-625-540-14
BVW-300AP



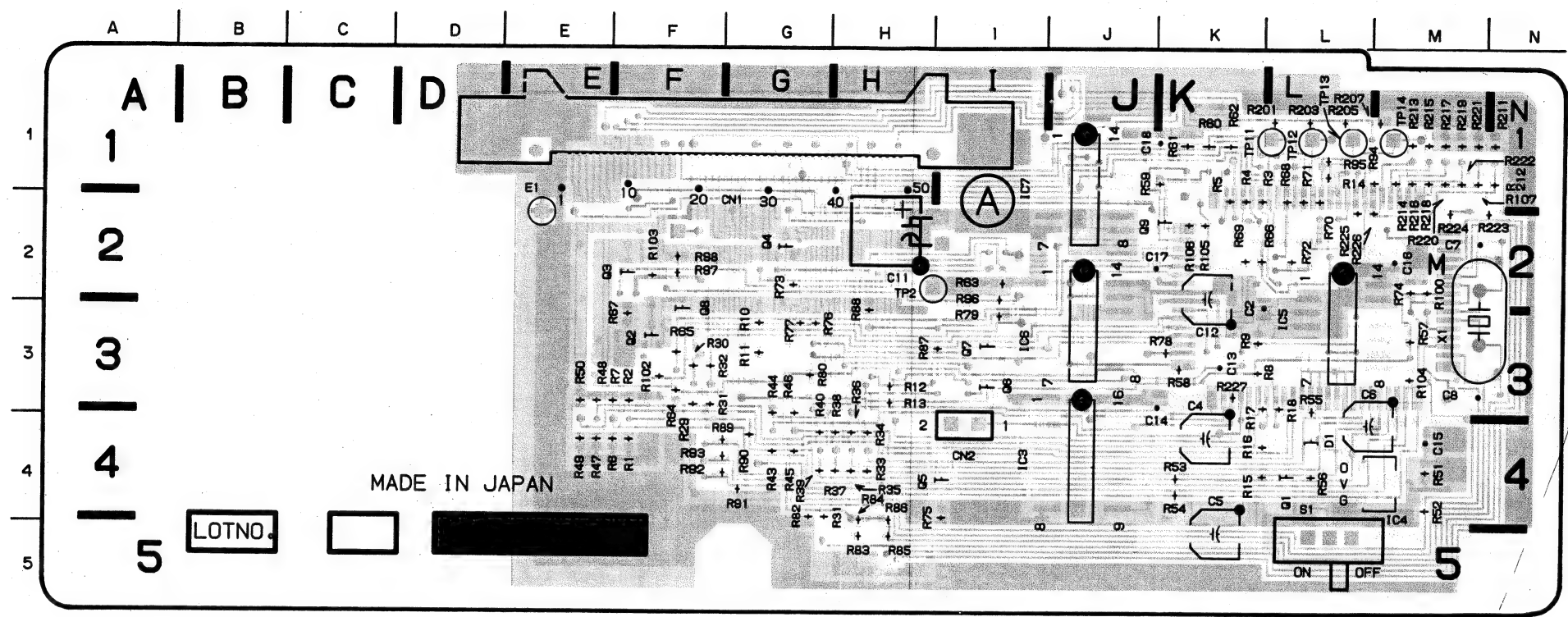
SV-97AP -SOLDERING SIDE-
1-625-540-14
BVW-300AP

SY-117CP;SYSTEM CONTROL

CN1	G-2
CN2	I-4
D1	L-4
E1	E-1
IC1	L-4
IC3	I-4
IC4	M-4
IC5	L-3
IC6	I-3
IC7	I-1
Q1	L-4
Q2	F-3
Q3	F-2
Q4	G-2
Q5	H-4
Q6	I-3
Q7	I-3
Q8	F-3
Q9	J-2
S1	L-4
TP2	H-2
TP11	K-1
TP12	L-1
TP13	L-1
TP14	M-1
X1	M-3

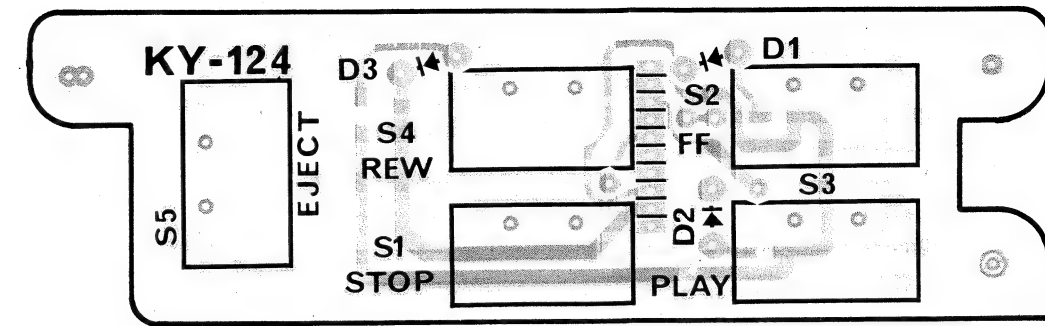


SY-117CP;SYSTEM CONTROL

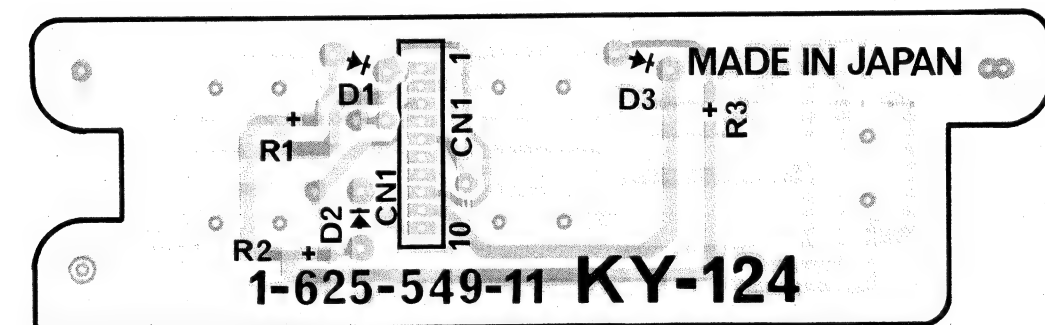


SY-117CP -SOLDERING SIDE-
1-625-539-21
BVW-300AP

KY-124;KEY BOARD

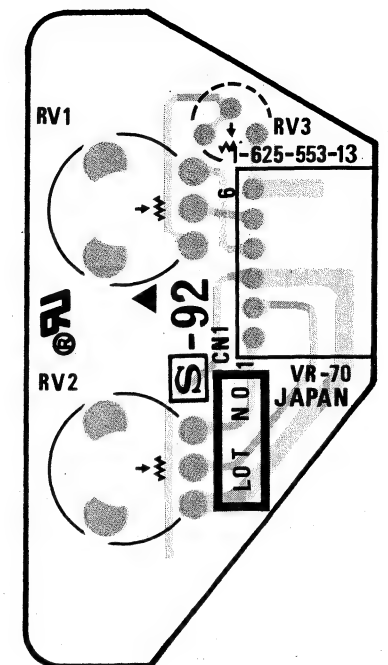


KY-124 -COMPONENT SIDE-
1-625-549-11
BVW-300AP



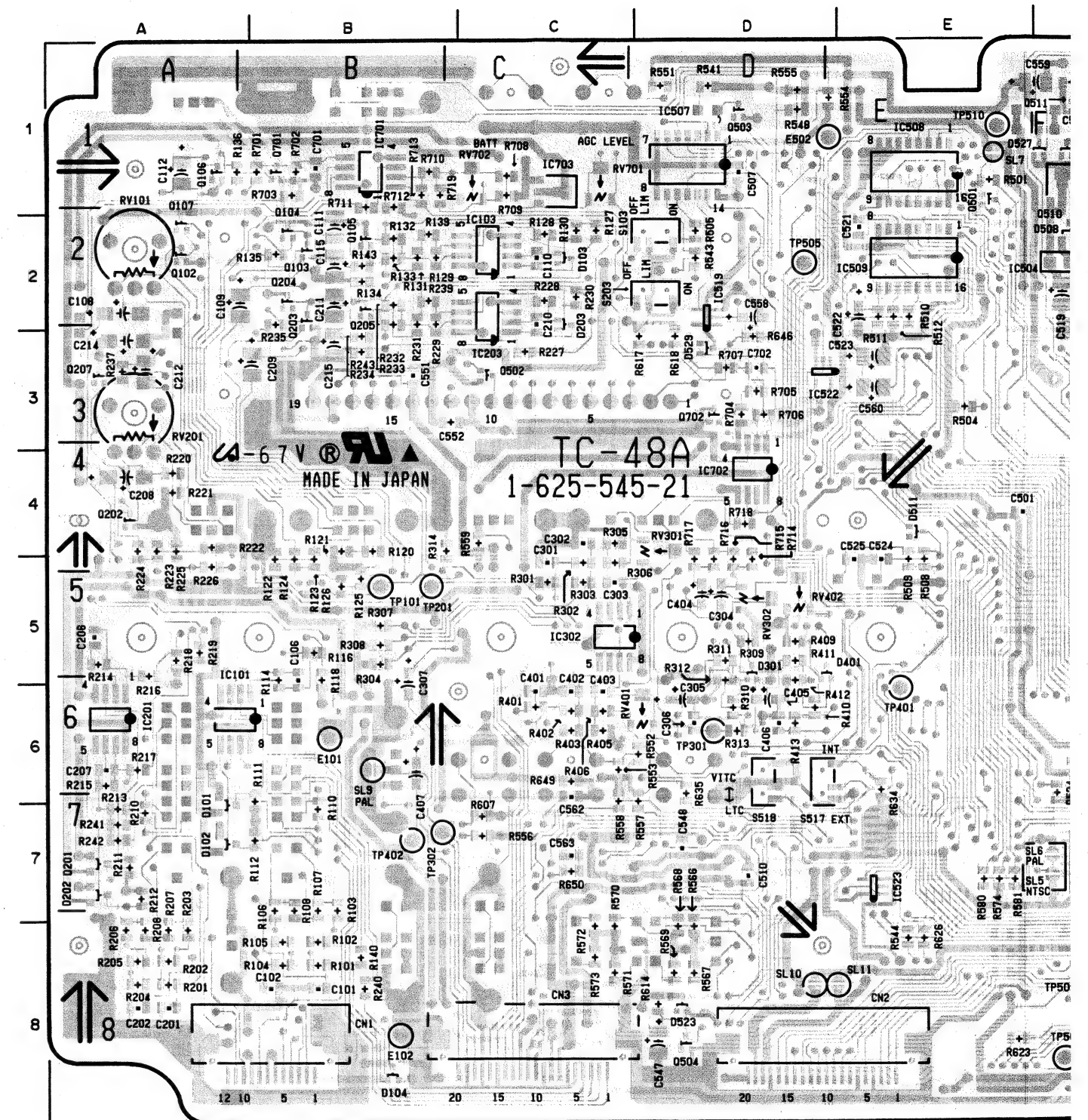
KY-124 -SOLDERING SIDE-
1-625-549-11
BVW-300AP

VR-70;VOLUME CONTORL

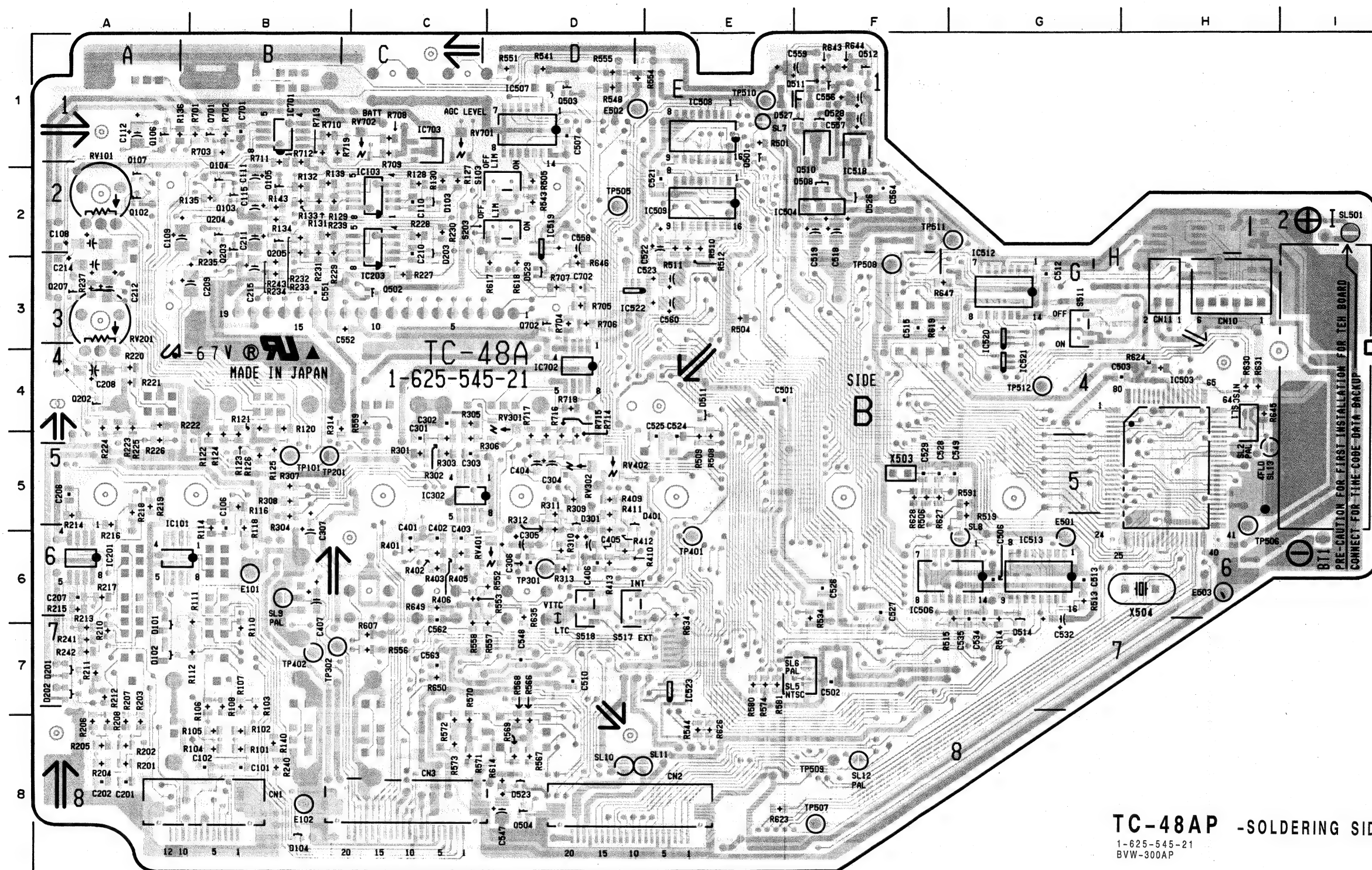


HP-43 -COMPONENT SIDE-
1-627-593-12
BVW-300AP

BT1	I-6	IC507	D-1	RV702	C-1
		IC508	E-1		
CN1	B-8	IC509	E-2	S101	B-7
CN2	E-8	IC510	D-7	S102	B-5
CN3	C-8	IC511	F-5	S103	C-2
CN10	H-3	IC512	G-3	S201	A-7
CN11	H-3	IC513	G-6	S202	A-4
		IC514	H-3	S203	C-2
D101	A-7	IC515	F-4	S501	B-1
D102	A-7	IC516	D-4	S502	C-7
D103	C-2	IC517	D-7	S503	C-1
D104	B-8	IC518	F-2	S504	D-6
D201	A-7	IC519	D-2	S505	C-6
D202	A-7	IC520	G-3	S506	C-1
D203	C-3	IC521	G-4	S507	B-6
D301	D-6	IC522	E-3	S508	B-7
D401	E-5	IC523	E-7	S509	C-4
D508	F-2	IC701	B-1	S510	A-7
D511	E-4	IC702	D-4	S511	H-3
D514	G-7	IC703	C-1	S513	C-6
D515	G-6			S514	A-1
D522	D-1	PH1	A-3	S515	D-8
D523	D-8			S516	C-8
D524	C-8	Q101	B-8	S517	D-7
D525	C-8	Q102	A-2	S518	D-7
D526	F-2	Q103	B-2	S701	D-4
D527	E-1	Q104	B-2		
D528	F-1	Q105	B-2	TP101	B-5
D529	D-3	Q106	A-1	TP201	B-5
D530	H-2	Q107	A-1	TP301	D-6
		Q201	B-8	TP302	B-7
E101	B-6	Q202	A-4	TP401	E-6
E102	B-8	Q203	B-2	TP402	B-7
E501	G-6	Q204	B-2	TP505	D-2
E502	D-1	Q205	B-3	TP506	I-6
E503	H-6	Q206	A-4	TP507	F-8
		Q207	A-3	TP508	F-3
IC1	H-2	Q501	E-1	TP509	F-8
IC101	A-6	Q502	C-3	TP510	E-1
IC102	B-5	Q503	D-1	TP511	F-2
IC103	C-2	Q504	D-8	TP512	G-4
IC201	A-6	Q509	F-8		
IC202	A-5	Q510	F-2	X501	E-4
IC203	C-3	Q511	F-1	X502	F-6
IC301	B-6	Q512	F-1	X503	F-5
IC302	C-5	Q701	B-1	X504	H-6
IC303	D-6	Q702	D-3		
IC401	C-6				
IC403	D-6	RV101	A-1		
IC501	E-6	RV201	A-3		
IC502	E-6	RV301	D-4		
IC503	H-4	RV302	D-5		
IC504	F-2	RV401	C-6		
IC505	E-1	RV402	D-5		
IC506	F-6	RV701	C-1		



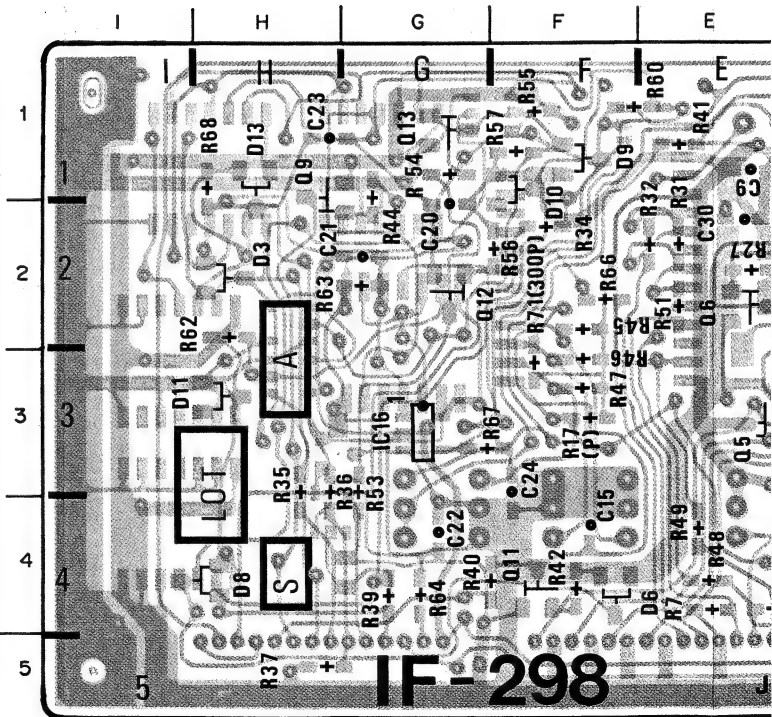
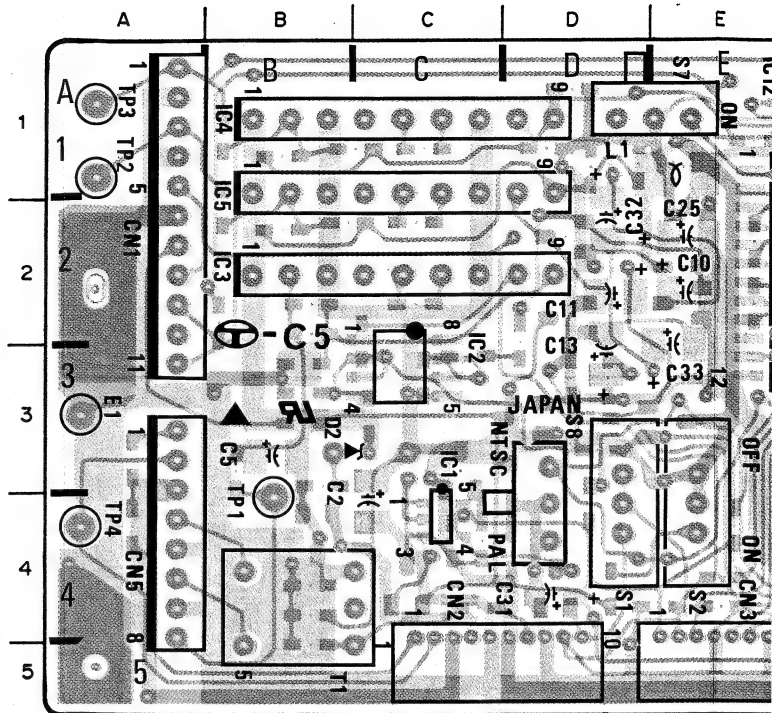
TC-48AP;TIME CODE,LEVEL CONTROL,MONITOR,SW,INDICTOR



TC-48AP -SOLDERING SIDE-
1-625-545-21
BVW-300AP

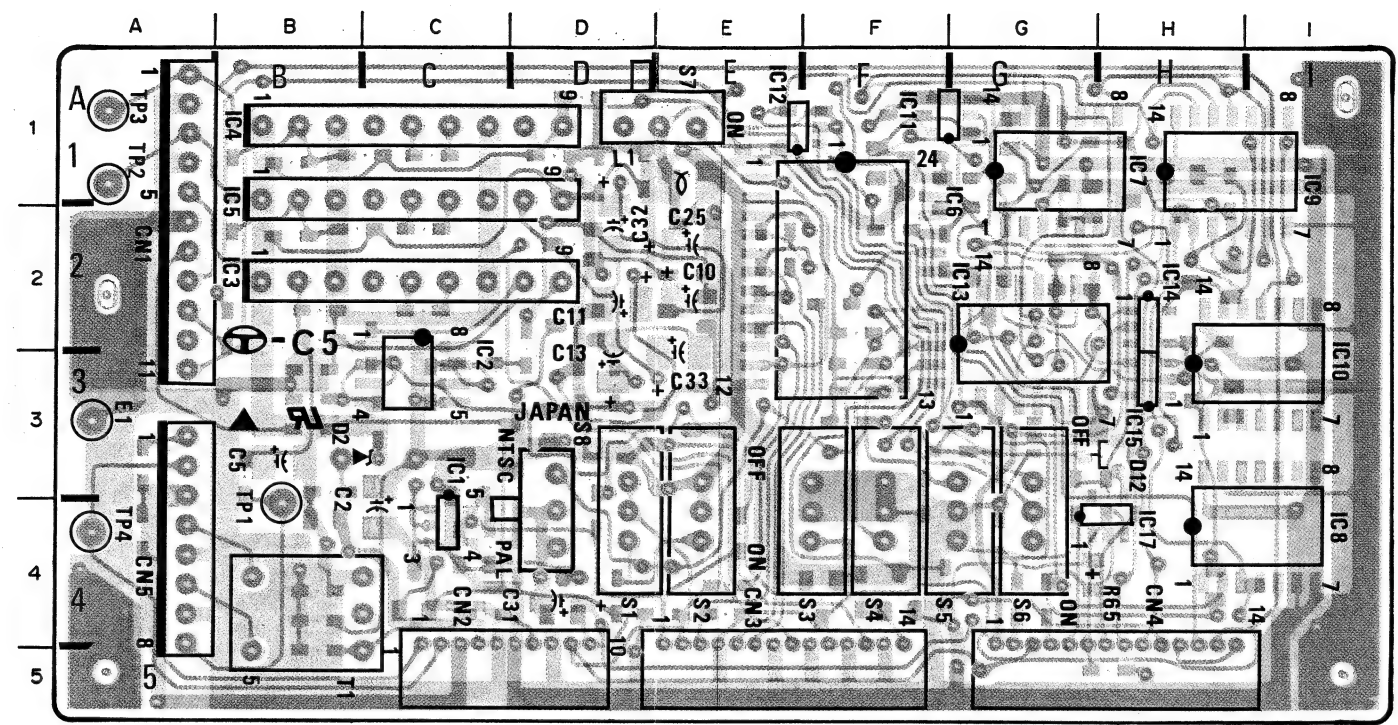
IF-298AP;INTERFACE

CN1	A-2	S6	G-4
CN2	C-4	S7	E-1
CN3	E-4	S8	D-4
CN4	H-4		
CN5	A-4	TP1	B-4
		TP2	A-1
		TP3	A-1
		TP4	A-4
		T1	B-5
D1	D-4		
D2	B-3		
D3	H-2		
D6	E-4		
D7	C-3		
D8	H-4		
D9	F-1		
D10	F-2		
D11	I-3		
D12	H-3		
D13	H-1		
E1	A-3		
IC1	C-3		
IC2	C-3		
IC3	B-2		
IC4	B-1		
IC5	B-1		
IC6	G-1		
IC7	H-1		
IC8	I-4		
IC9	I-1		
IC10	I-3		
IC11	F-1		
IC12	E-1		
IC13	G-2		
IC14	H-2		
IC15	H-3		
IC16	G-3		
IC17	H-4		
Q1	C-4		
Q2	C-3		
Q4	B-4		
Q5	E-3		
Q6	E-3		
Q7	D-2		
Q8	D-2		
Q9	H-1		
Q11	F-4		
Q12	G-2		
Q13	G-1		
S1	D-4		
S2	E-4		
S3	F-5		
S4	F-5		
S5	G-4		

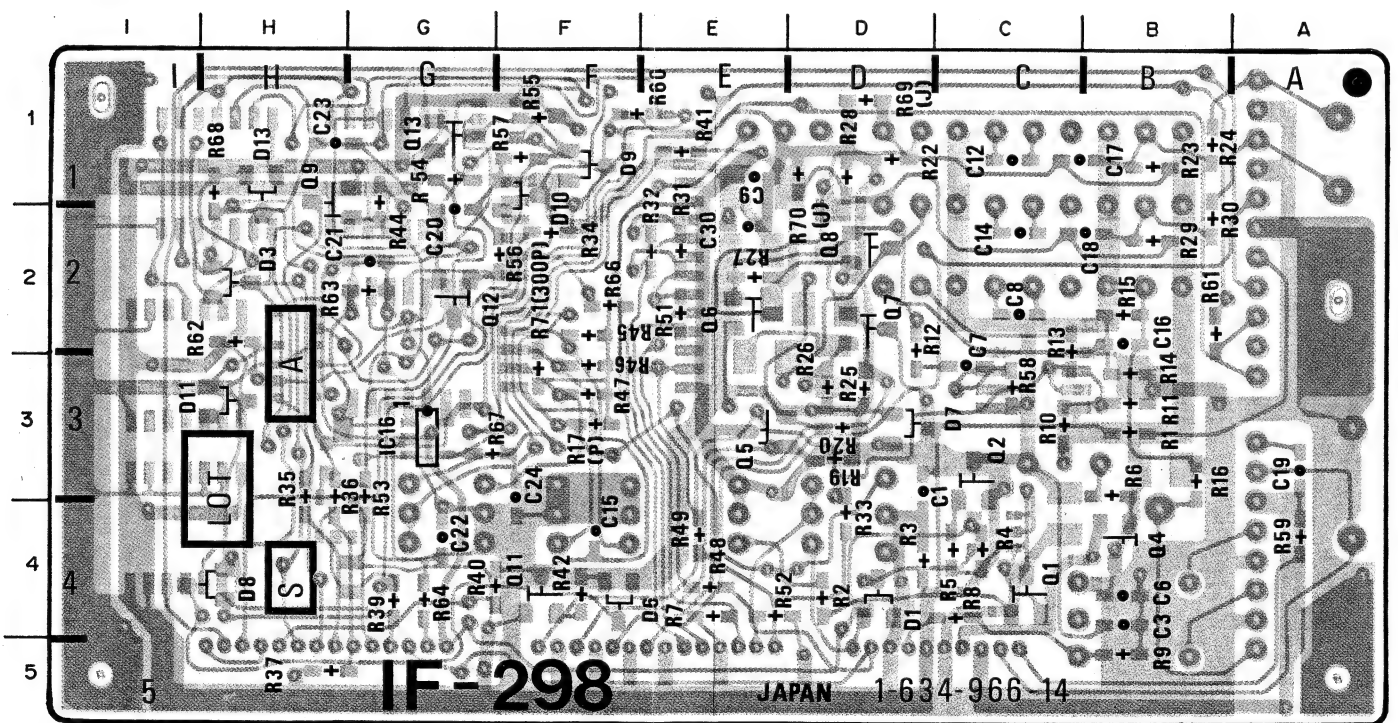


IF-298AP;INTERFACE

CN1	A-2	S6	G-4
CN2	C-4	S7	E-1
CN3	E-4	S8	D-4
CN4	H-4		
CN5	A-4	TP1	B-4
		TP2	A-1
D1	D-4	TP3	A-1
D2	B-3	TP4	A-4
D3	H-2		
D6	E-4	T1	B-5
D7	C-3		
D8	H-4		
D9	F-1		
D10	F-2		
D11	I-3		
D12	H-3		
D13	H-1		
E1	A-3		
IC1	C-3		
IC2	C-3		
IC3	B-2		
IC4	B-1		
IC5	B-1		
IC6	G-1		
IC7	H-1		
IC8	I-4		
IC9	I-1		
IC10	I-3		
IC11	F-1		
IC12	E-1		
IC13	G-2		
IC14	H-2		
IC15	H-3		
IC16	G-3		
IC17	H-4		
Q1	C-4		
Q2	C-3		
Q4	B-4		
Q5	E-3		
Q6	E-3		
Q7	D-2		
Q8	D-2		
Q9	H-1		
Q11	F-4		
Q12	G-2		
Q13	G-1		
S1	D-4		
S2	E-4		
S3	F-5		
S4	F-5		
S5	G-4		

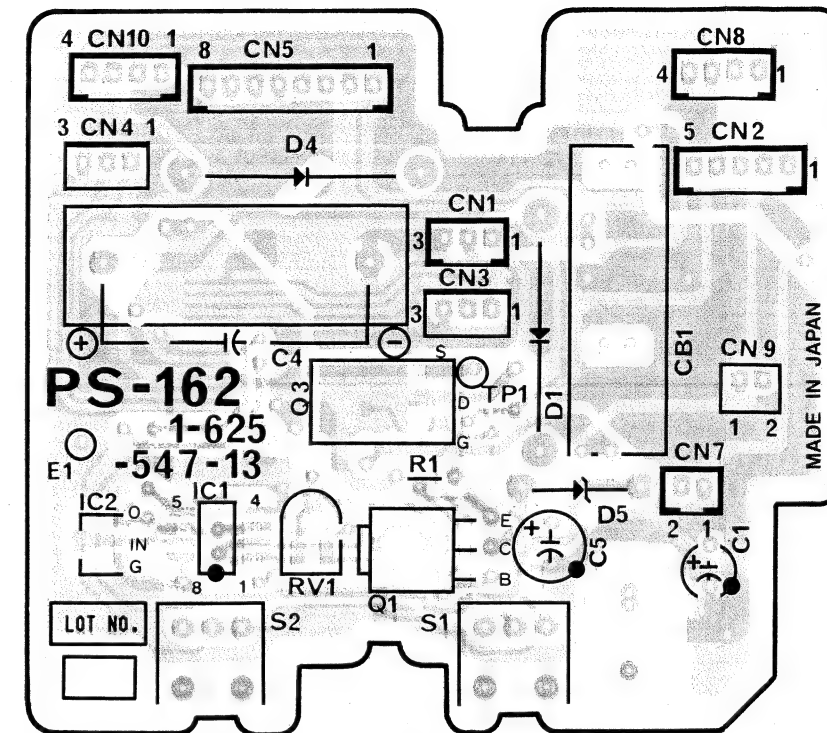


IF-298AP -COMPONENT SIDE-
1-634-966-14
BVW-300AP

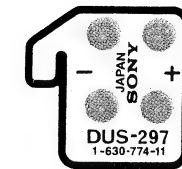


IF-298AP -SOLDERING SIDE-
1-634-966-14
BVW-300AP

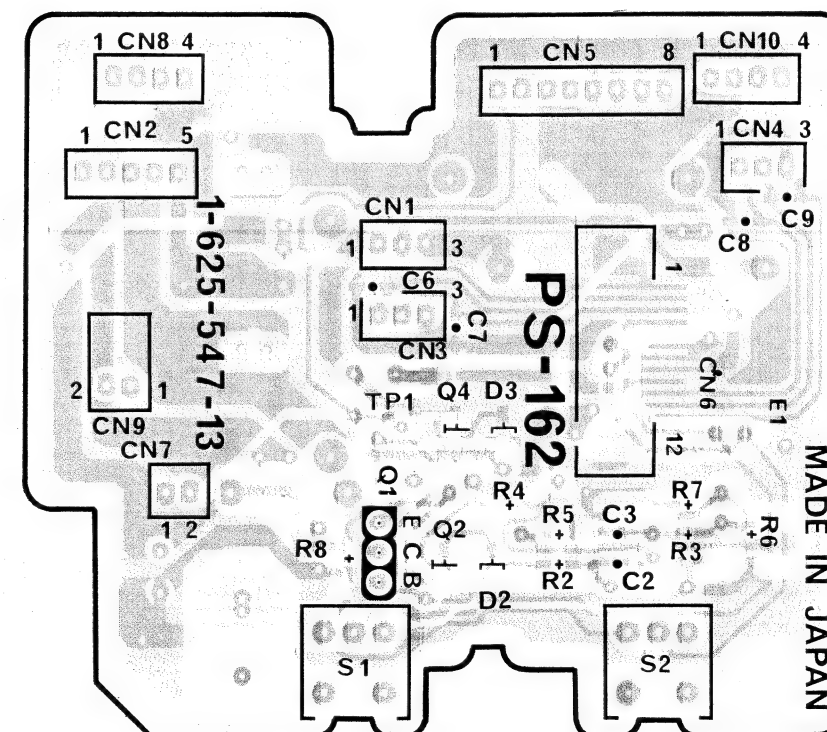
PS-162;POWER DISTRIBUTOR



PS-162 -COMPONENT SIDE-
1-625-547-13,14
BVW-300AP



DUS-297
-COMPONENT SIDE-
1-630-774-11
BVW-300AP



PS-162 -SOLDERING SIDE-
1-625-547-13,14
BVW-300AP

FE-4,LD-21,SR-40	FE-4,LD-21,SR-40
DUS-246,CN-400	DUS-246,CN-400

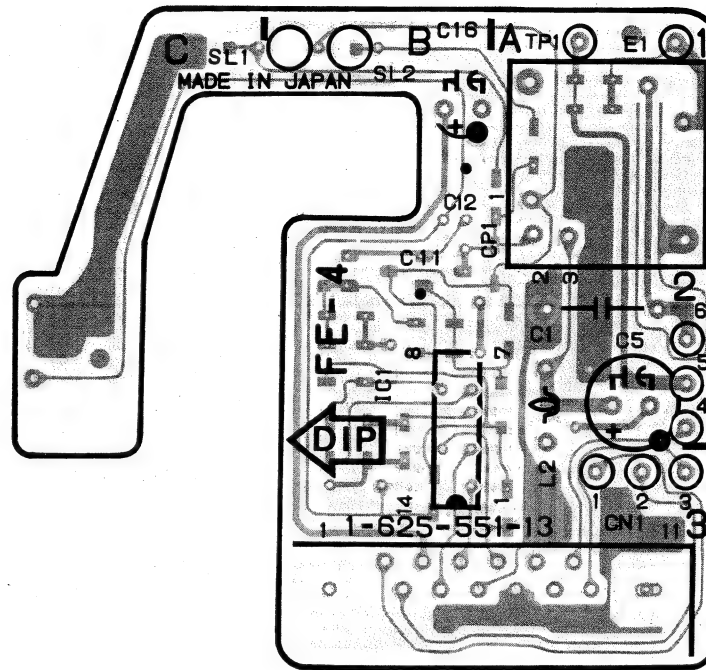
FE-4, LD-21, SR-40
DUS-246, CN-400

FE-4; FULL ERASE

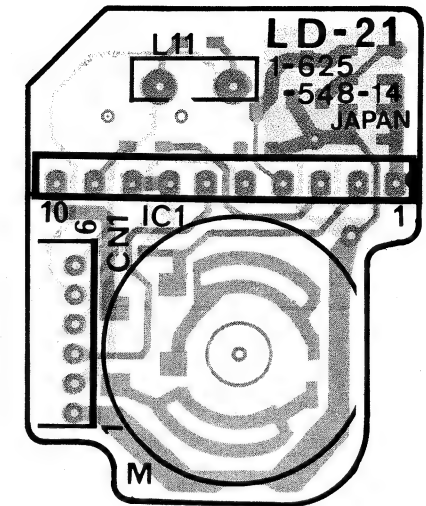
LD-21; LOADING

SR-40;MECHANICAL POSITION SENSOR

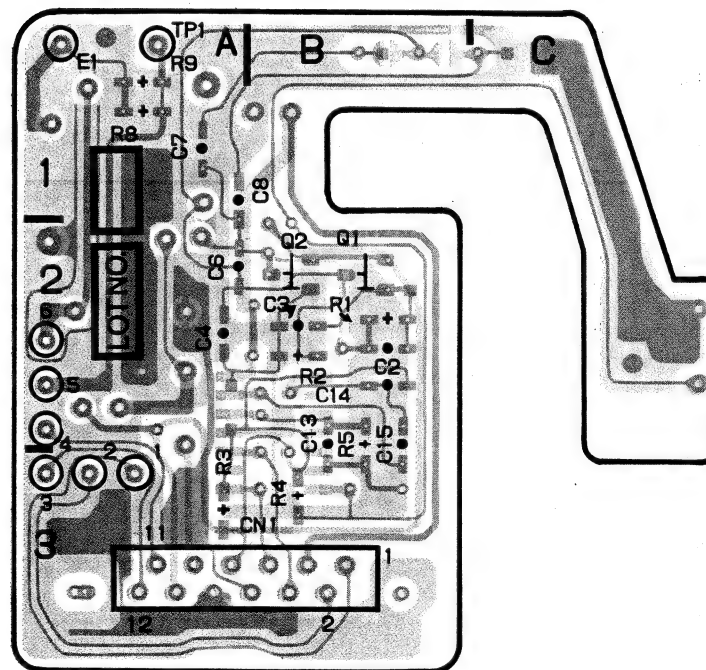
CN-400;INTERFACE CONNECTOR



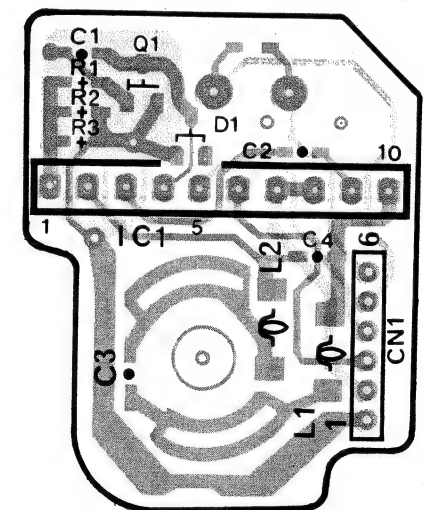
FE-4 -COMPONENT SIDE-
1-625-551-13,14
BVW-300AP



LD-21 -SOLDERING SIDE-
1-625-548-14
BVW-300AP

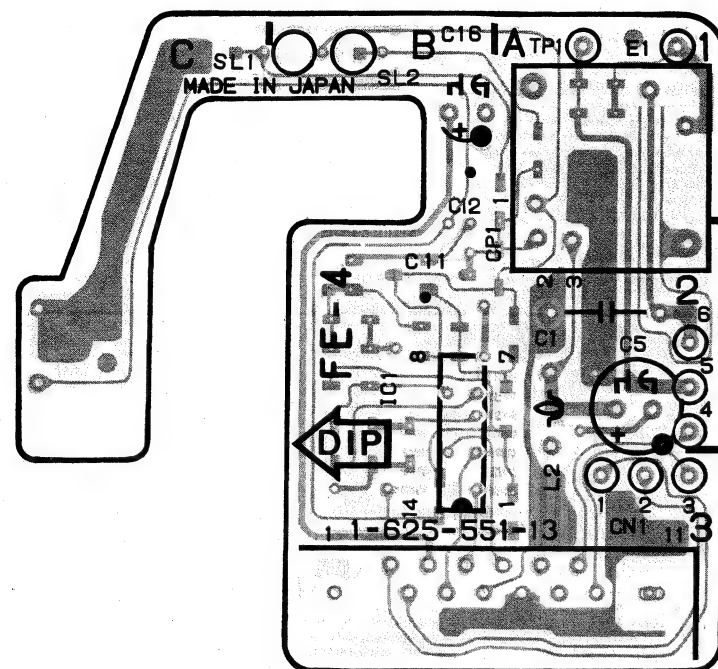


FE-4 -SOLDERING SIDE-
1-625-551-13,14
BVW-300AP

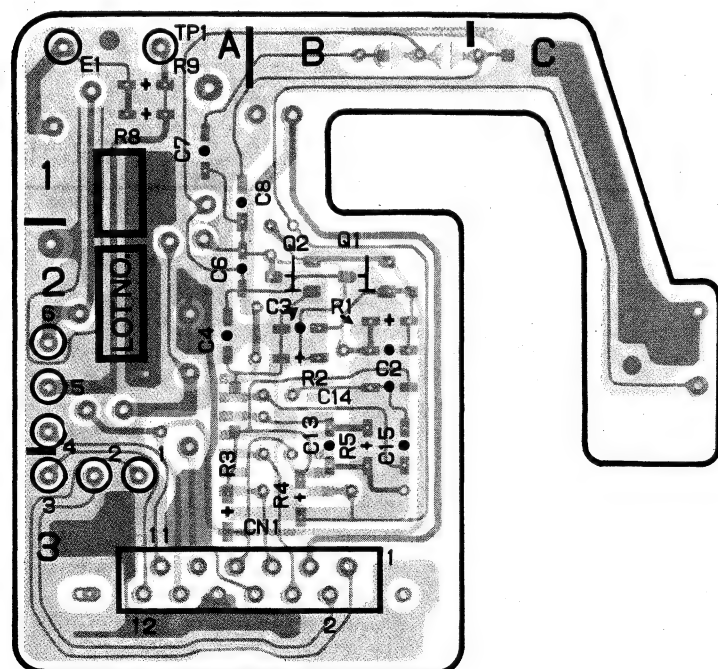


LD-21 -COMPONENT SIDE-
1-625-548-14
BVW-300AP

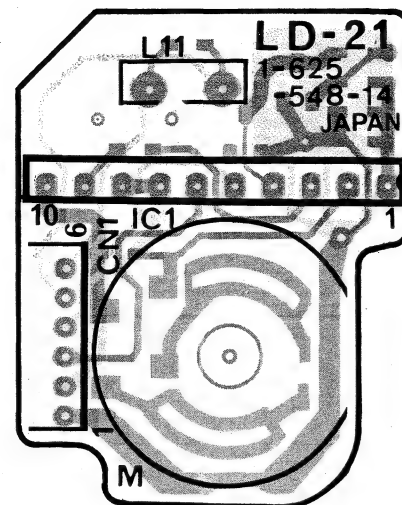
FE-4;FULL ERASE
LD-21;LOADING
SR-40;MECHANICAL POSITION SENSOR
CN-400;INTERFACE CONNECTOR



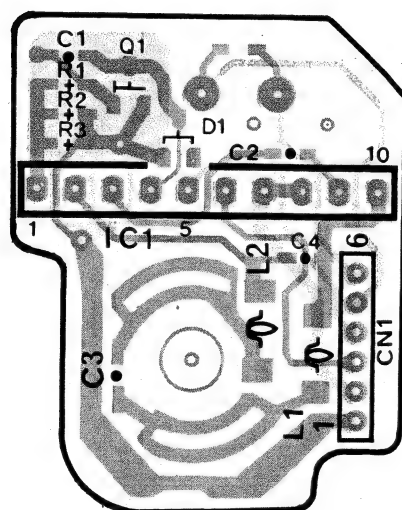
FE-4 -COMPONENT SIDE-
1-625-551-13,14
BVW-300AP



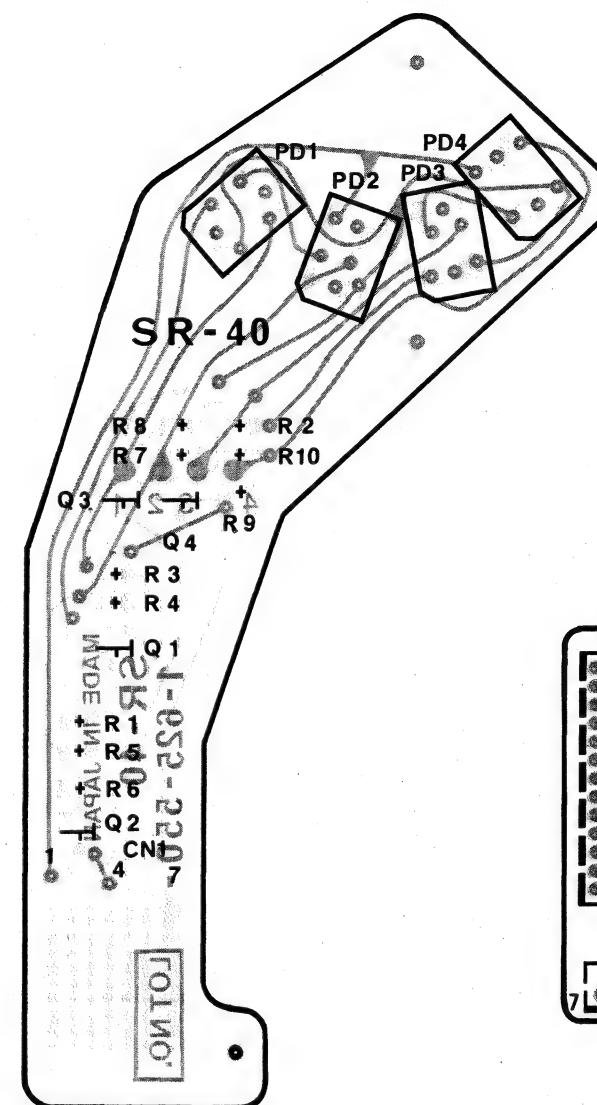
FE-4 -SOLDERING SIDE-
1-625-551-13,14
BVW-300AP



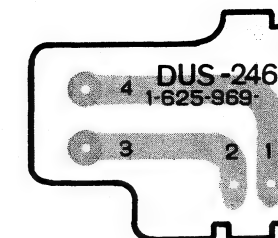
LD-21 -SOLDERING SIDE-
1-625-548-14
BVW-300AP



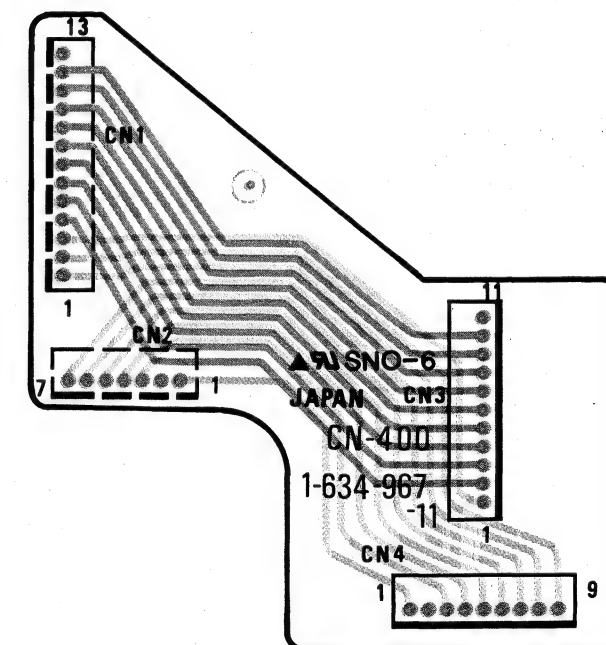
LD-21 -COMPONENT SIDE-
1-625-548-14
BVW-300AP



SR-40 -COMPONENT SIDE-
1-625-550-13
BVW-300AP



DUS-246 -COMPONENT SIDE-
1-625-969-13
BVW-300AP

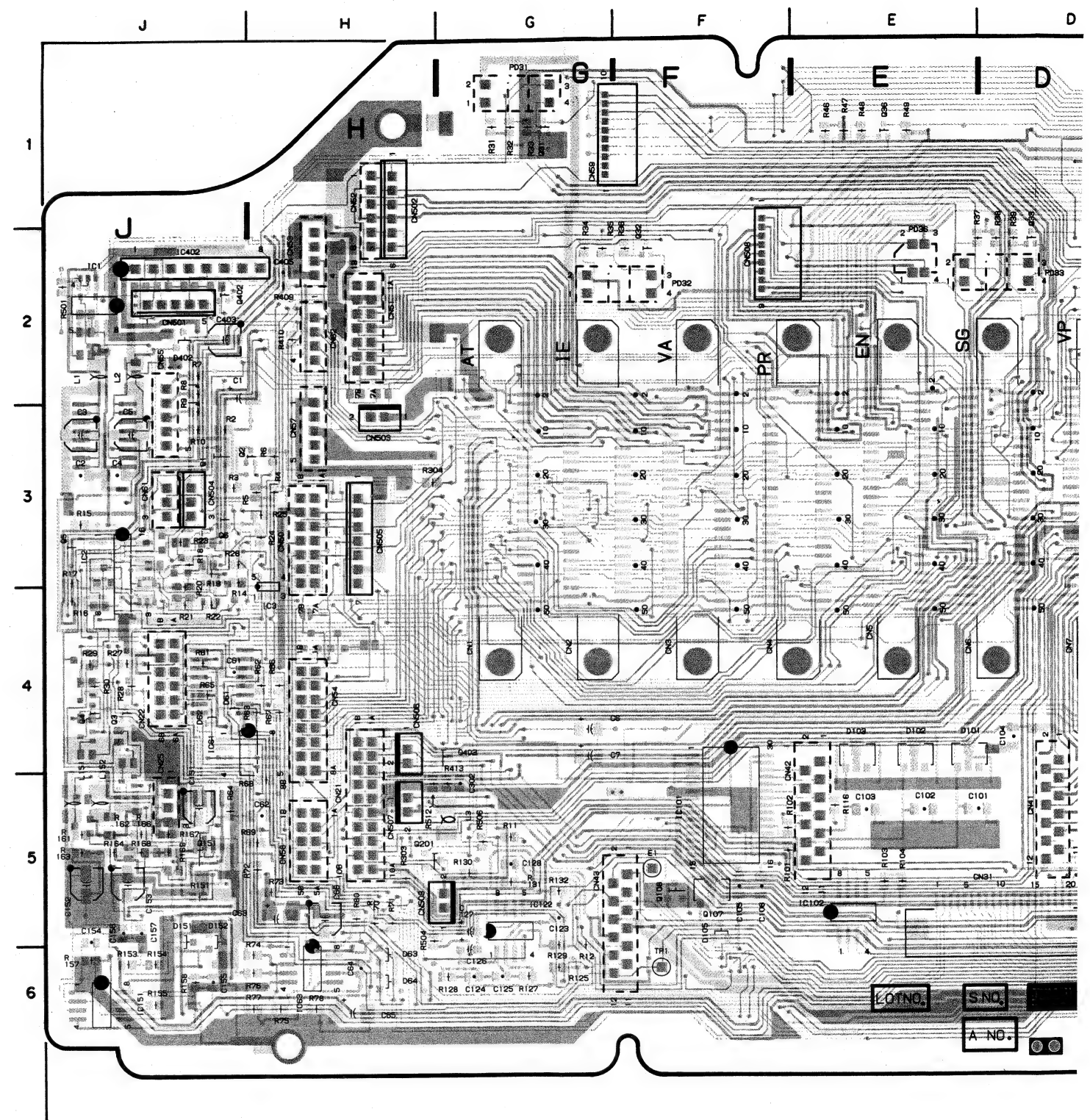


CN-400 -COMPONENT SIDE-
1-634-967-11
BVW-300AP

MB-317AP;MOTHER BOARD
SW-297;BACK TALLY

S/N;42131 and higher

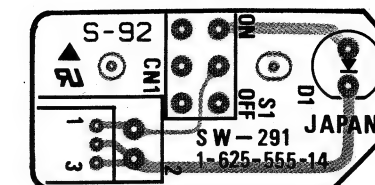
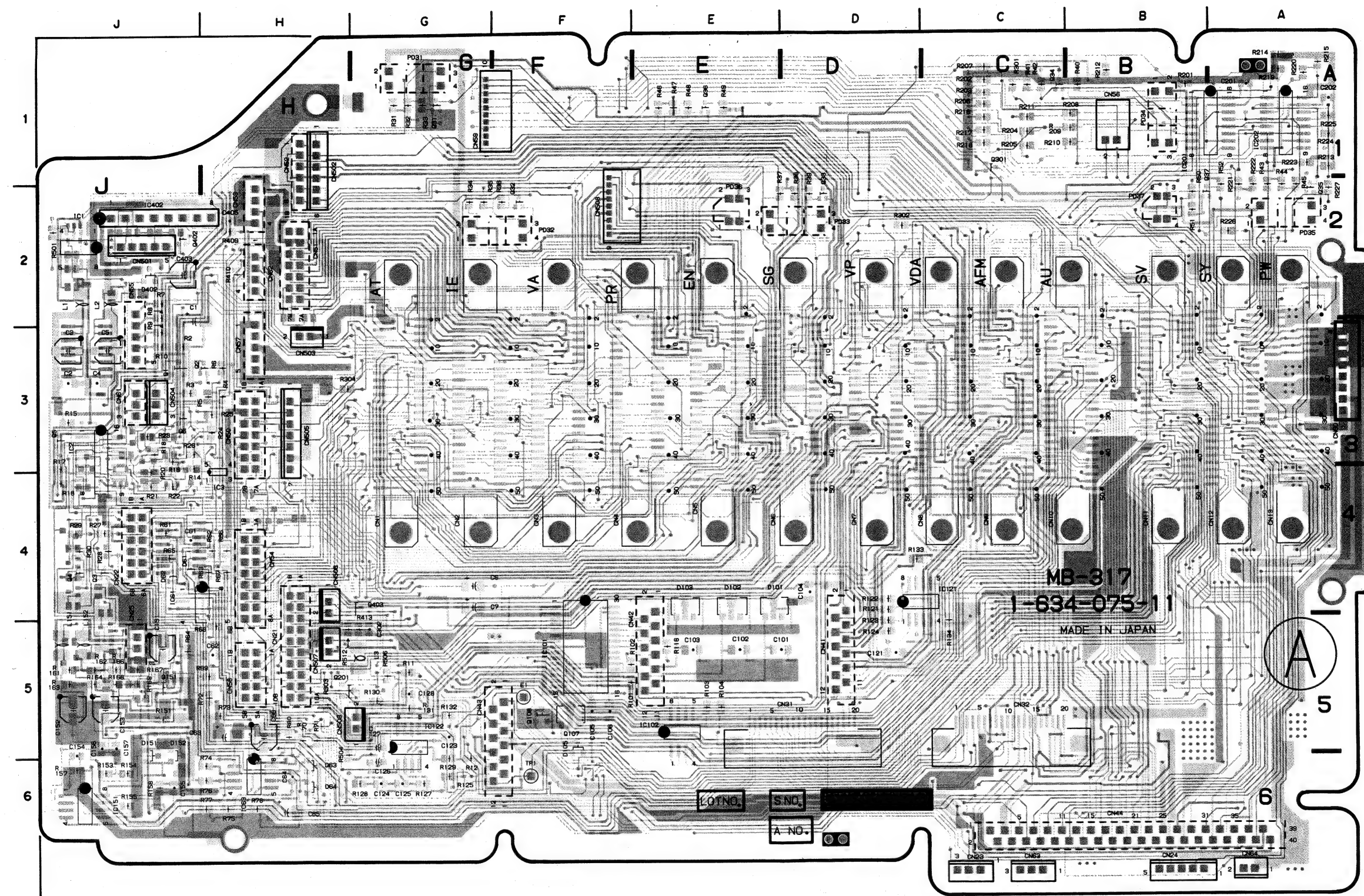
CN1	G-4	D63	H-6	Q107	F-5
CN2	G-4	D64	H-6	Q108	F-5
CN3	F-4	D101	E-4	Q151	J-5
CN4	F-4	D102	E-4	Q201	H-5
CN5	E-4	D103	E-4	Q202	H-4
CN6	E-4	D105	F-5	Q301	C-1
CN7	D-4	D151	J-5	Q401	J-5
CN8	C-4	D152	J-5	Q402	J-2
CN9	C-4	D401	J-5	Q403	G-4
CN10	C-4	D402	J-2	Q404	J-4
CN11	B-4	D403	H-4	Q405	J-4
CN12	A-4			Q501	J-3
CN13	A-4	E1	F-5		
CN21	H-5			TP1	F-6
CN22	J-4	IC1	J-2		
CN23	C-6	IC2	J-3		
CN24	B-6	IC3	H-4		
CN25	J-4	IC4	J-4		
CN31	D-5	IC61	J-4		
CN32	C-5	IC62	H-4		
CN41	D-5	IC63	H-6		
CN42	E-5	IC101	F-5		
CN43	F-5	IC102	E-5		
CN44	B-6	IC121	C-4		
CN50	H-3	IC122	G-5		
CN51	H-2	IC151	J-6		
CN52	H-1	IC201	B-1		
CN53	H-2	IC202	A-1		
CN54	H-4	IC401	J-5		
CN55	J-3	IC402	J-2		
CN56	B-1	IC403	J-4		
CN57	H-3	IC404	J-3		
CN58	H-5	IC405	J-2		
CN59	G-1				
CN60	A-3	PD31	G-1		
CN61	J-3	PD32	F-2		
CN62	H-2	PD33	D-2		
CN63	C-6	PD34	B-1		
CN64	A-6	PD35	A-2		
CN501	J-2	PD36	E-1		
CN502	H-1	PD37	B-2		
CN503	H-3				
CN504	J-3	Q1	J-3		
CN505	H-3	Q2	J-3		
CN506	H-4	Q3	J-4		
CN507	H-5	Q4	J-4		
CN508	F-2	Q5	J-3		
CN509	H-5	Q6	J-3		
		Q31	G-1		
D1	H-4	Q32	F-2		
D2	J-3	Q33	D-2		
D3	J-3	Q34	C-1		
D4	J-4	Q35	A-2		
D61	J-4	Q36	E-1		
D62	J-4	Q37	B-1		



MB-317AP;MOTHER BOARD

SW-297;BACK TALLY

S/N:42131 and higher



SW-291
-COMPONENT SIDE-
1-634-555-14
BVW-300AP

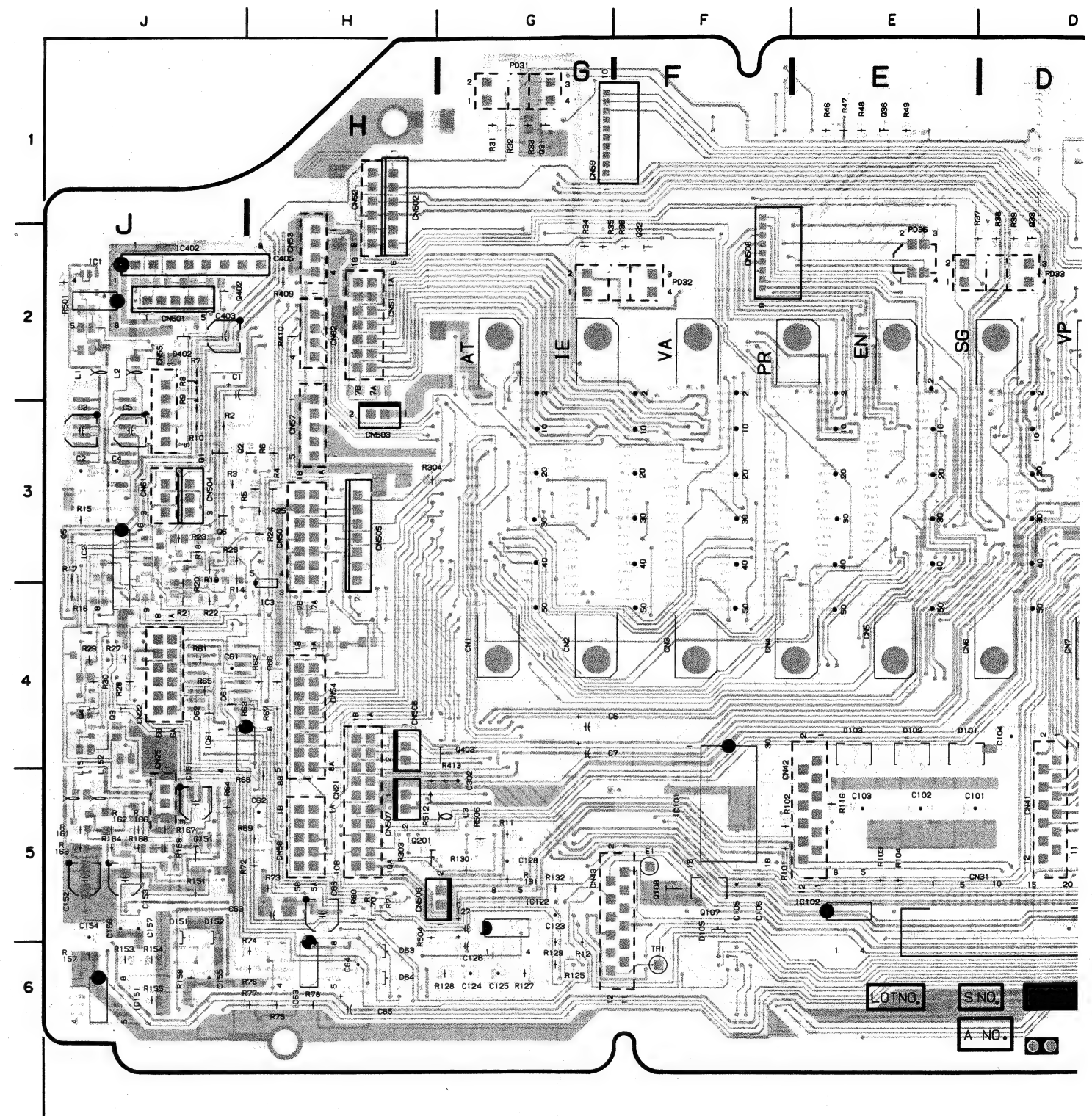
MB-317AP -COMPONENT SIDE-
1-625-075-11
BVW-300AP

MB-317AP;MOTHER BOARD

SW-297;BACK TALLY

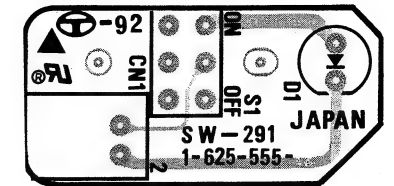
S/N;41954 through 42130

CN1	G-4	D63	H-6	Q107	F-5
CN2	G-4	D64	H-6	Q108	F-5
CN3	F-4	D101	E-4	Q151	J-5
CN4	F-4	D102	E-4	Q201	H-5
CN5	E-4	D103	E-4	Q202	H-4
CN6	E-4	D105	F-5	Q301	C-1
CN7	D-4	D151	J-5	Q401	J-5
CN8	C-4	D152	J-5	Q402	J-2
CN9	C-4	D401	J-5	Q403	G-4
CN10	C-4	D402	J-2	Q404	J-4
CN11	B-4	D403	H-4	Q405	J-4
CN12	A-4			Q501	J-3
CN13	A-4	E1	F-5		
CN21	H-5			TP1	F-6
CN22	J-4	IC1	J-2		
CN23	C-6	IC2	J-3		
CN24	B-6	IC3	H-4		
CN25	J-4	IC4	J-4		
CN31	D-5	IC61	J-4		
CN32	C-5	IC62	H-4		
CN41	D-5	IC63	H-6		
CN42	E-5	IC101	F-5		
CN43	F-5	IC102	E-5		
CN44	B-6	IC121	C-4		
CN50	H-3	IC122	G-5		
CN51	H-2	IC151	J-6		
CN52	H-1	IC201	B-1		
CN53	H-2	IC202	A-1		
CN54	H-4	IC401	J-5		
CN55	J-3	IC402	J-2		
CN56	B-1	IC403	J-4		
CN57	H-3	IC404	J-3		
CN58	H-5	IC405	J-2		
CN59	G-1				
CN60	A-3	PD31	G-1		
CN61	J-3	PD32	F-2		
CN62	H-2	PD33	D-2		
CN63	C-6	PD34	B-1		
CN64	A-6	PD35	A-2		
CN501	J-2	PD36	E-1		
CN502	H-1	PD37	B-2		
CN503	H-3				
CN504	J-3	Q1	J-3		
CN505	H-3	Q2	J-3		
CN506	H-4	Q3	J-4		
CN507	H-5	Q4	J-4		
CN508	F-2	Q5	J-3		
CN509	H-5	Q6	J-3		
		Q31	G-1		
		Q32	F-2		
		Q33	D-2		
		Q34	C-1		
		Q35	A-2		
		Q36	E-1		
		Q37	B-1		
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D2	J-3				
D3	J-3				
D4	J-4				
D61	J-4				
D62	J-4				

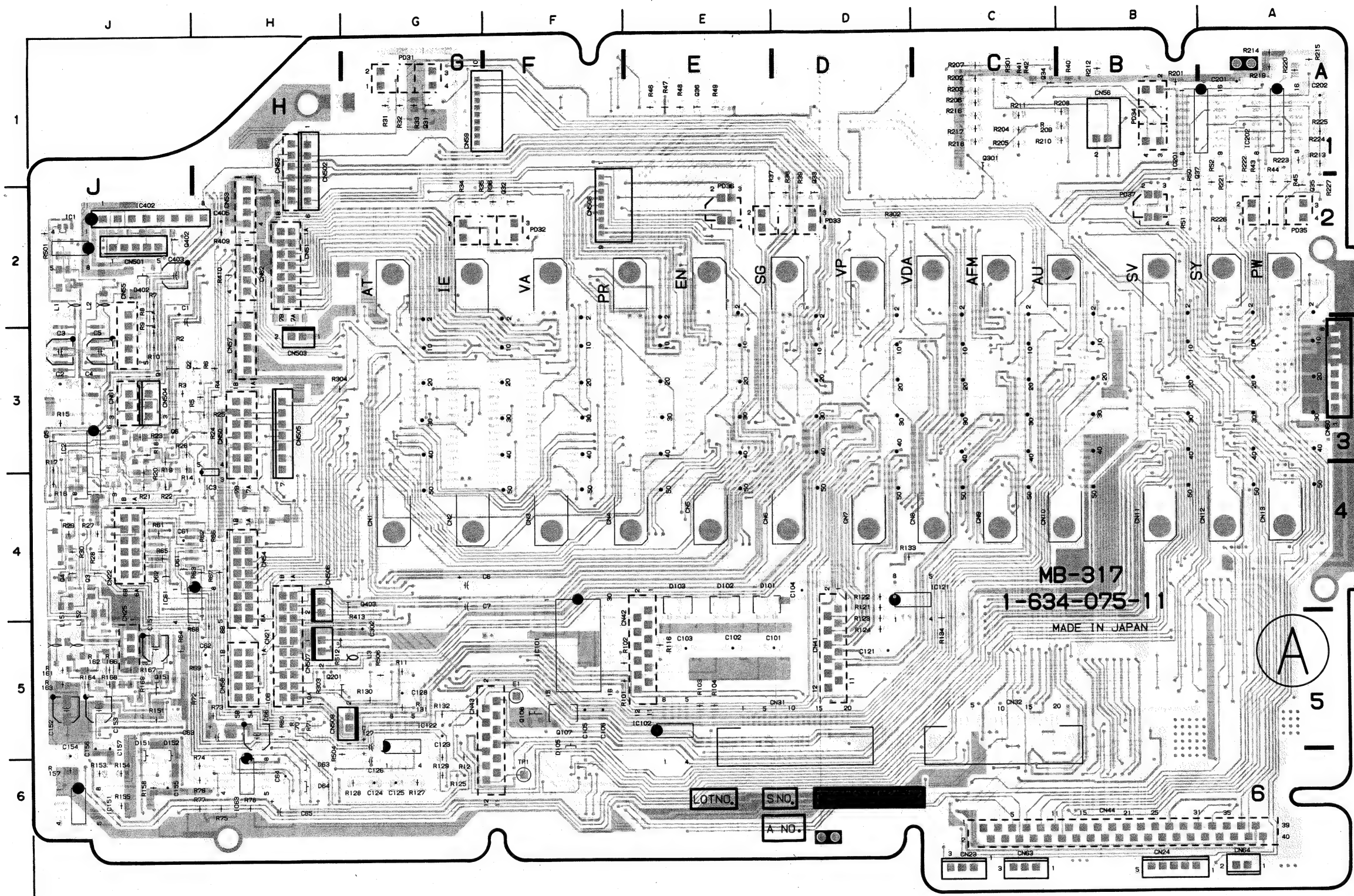


MB-317AP;MOTHER BOARD
SW-297;BACK TALLY

S/N;41954 through 42130



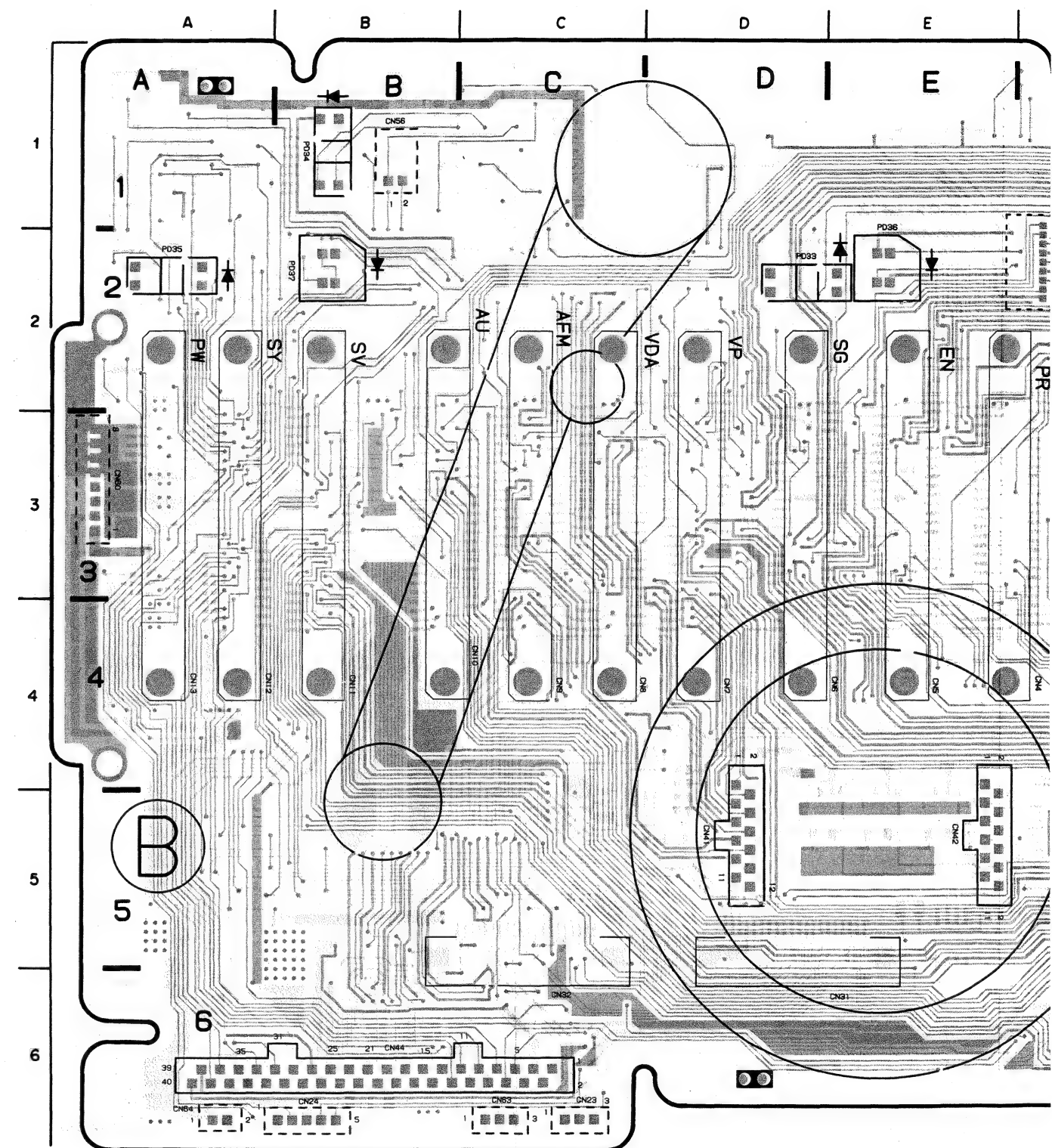
SW-291
-COMPONENT SIDE-
1-634-555-13
BVW-300AP



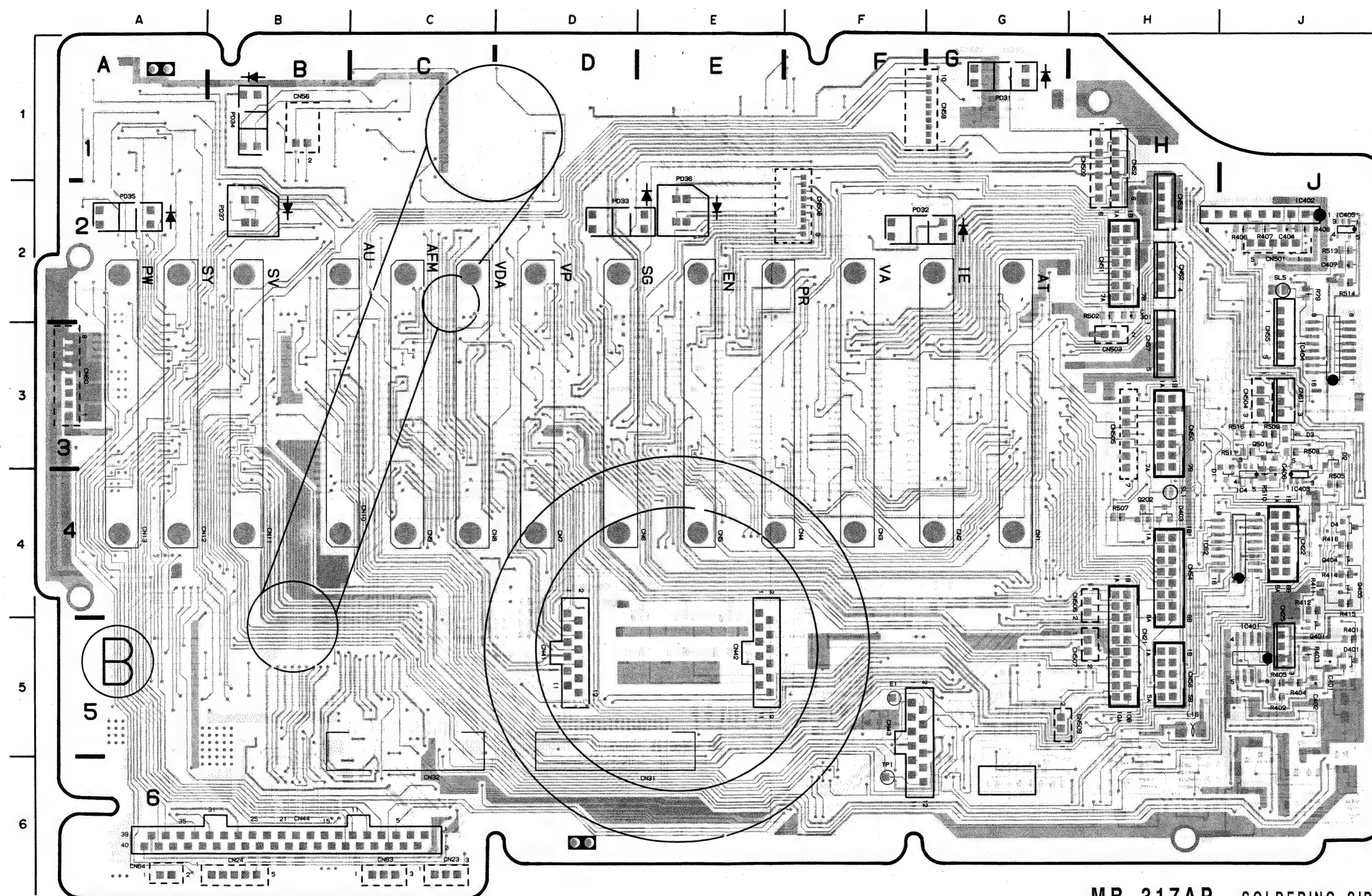
MB-317AP -COMPONENT SIDE-
1-625-075-11
BVW-300AP

12-141(a)

CN1	G-4	D63	H-6	Q107	F-5
CN2	G-4	D64	H-6	Q108	F-5
CN3	F-4	D101	E-4	Q151	J-5
CN4	F-4	D102	E-4	Q201	H-5
CN5	E-4	D103	E-4	Q202	H-4
CN6	E-4	D105	F-5	Q301	C-1
CN7	D-4	D151	J-5	Q401	J-5
CN8	C-4	D152	J-5	Q402	J-2
CN9	C-4	D401	J-5	Q403	G-4
CN10	C-4	D402	J-2	Q404	J-4
CN11	B-4	D403	H-4	Q405	J-4
CN12	A-4			Q501	J-3
CN13	A-4	E1	F-5	TP1	F-6
CN21	H-5				
CN22	J-4	IC1	J-2		
CN23	C-6	IC2	J-3		
CN24	B-6	IC3	H-4		
CN25	J-4	IC4	J-4		
CN31	D-5	IC61	J-4		
CN32	C-5	IC62	H-4		
CN41	D-5	IC63	H-6		
CN42	E-5	IC101	F-5		
CN43	F-5	IC102	E-5		
CN44	B-6	IC121	C-4		
CN50	H-3	IC122	G-5		
CN51	H-2	IC151	J-6		
CN52	H-1	IC201	B-1		
CN53	H-2	IC202	A-1		
CN54	H-4	IC401	J-5		
CN55	J-3	IC402	J-2		
CN56	B-1	IC403	J-4		
CN57	H-3	IC404	J-3		
CN58	H-5	IC405	J-2		
CN59	G-1				
CN60	A-3	PD31	G-1		
CN61	J-3	PD32	F-2		
CN62	H-2	PD33	D-2		
CN63	C-6	PD34	B-1		
CN64	A-6	PD35	A-2		
CN501	J-2	PD36	E-1		
CN502	H-1	PD37	B-2		
CN503	H-3				
CN504	J-3	Q1	J-3		
CN505	H-3	Q2	J-3		
CN506	H-4	Q3	J-4		
CN507	H-5	Q4	J-4		
CN508	F-2	Q5	J-3		
CN509	H-5	Q6	J-3		
		Q31	G-1		
D1	H-4	Q32	F-2		
D2	J-3	Q33	D-2		
D3	J-3	Q34	C-1		
D4	J-4	Q35	A-2		
D61	J-4	Q36	E-1		
D62	J-4	Q37	B-1		

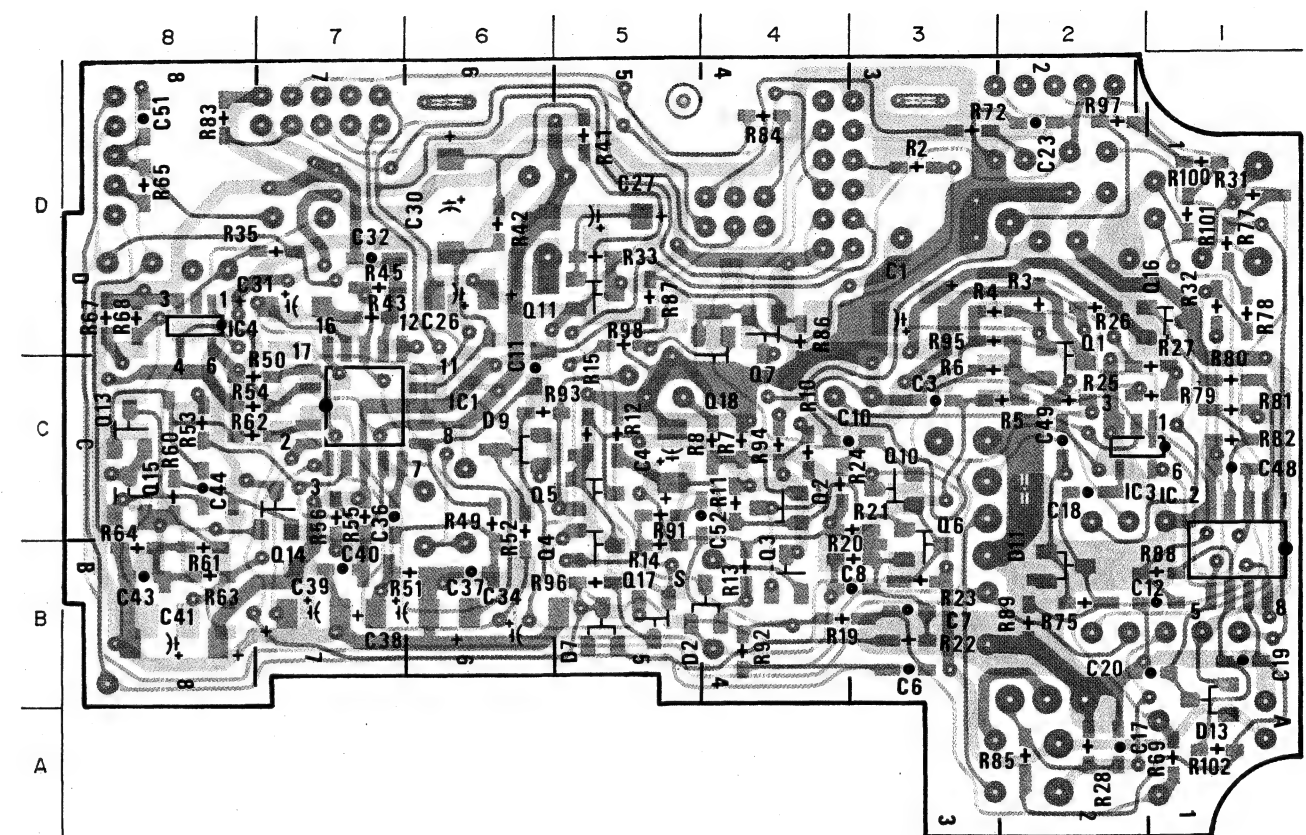


MB-317AP;MOTHER BOARD



MB-317AP -SOLDERING SIDE-
1-634-075-11
BVW-300AP

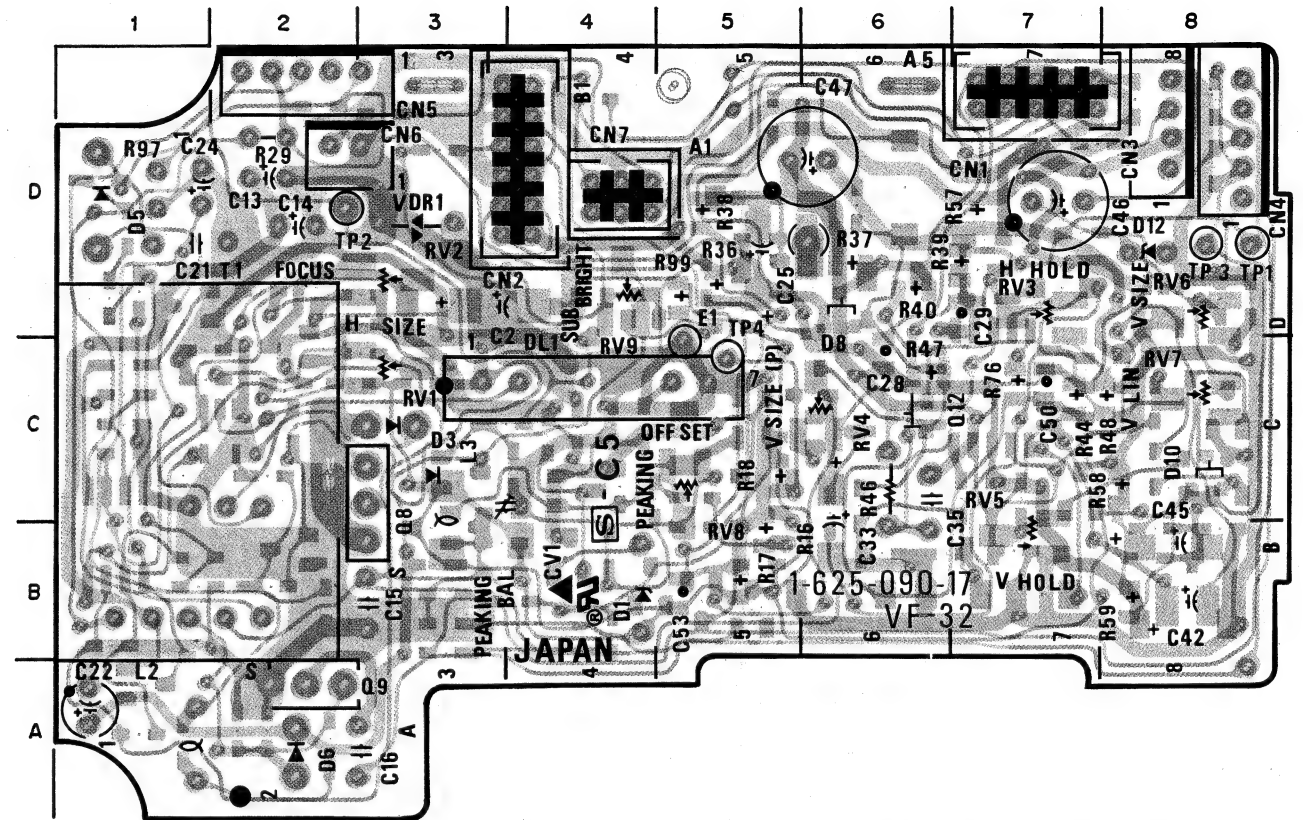
S/N; 44001 and higher



VF-50 -SOLDERING SIDE-
1-643-703-12
BVW-300AP

VF-32;VIEWFINDER

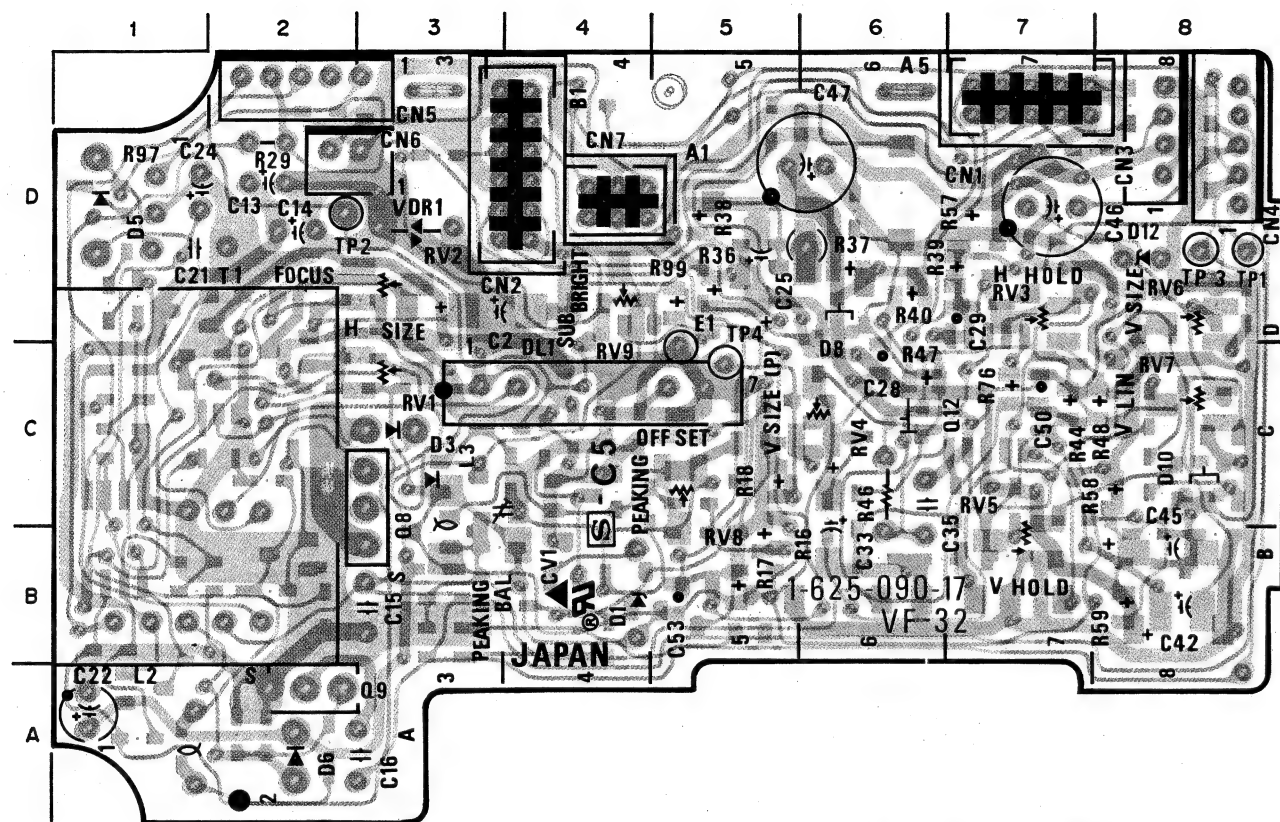
S/N; 41954 through 43999



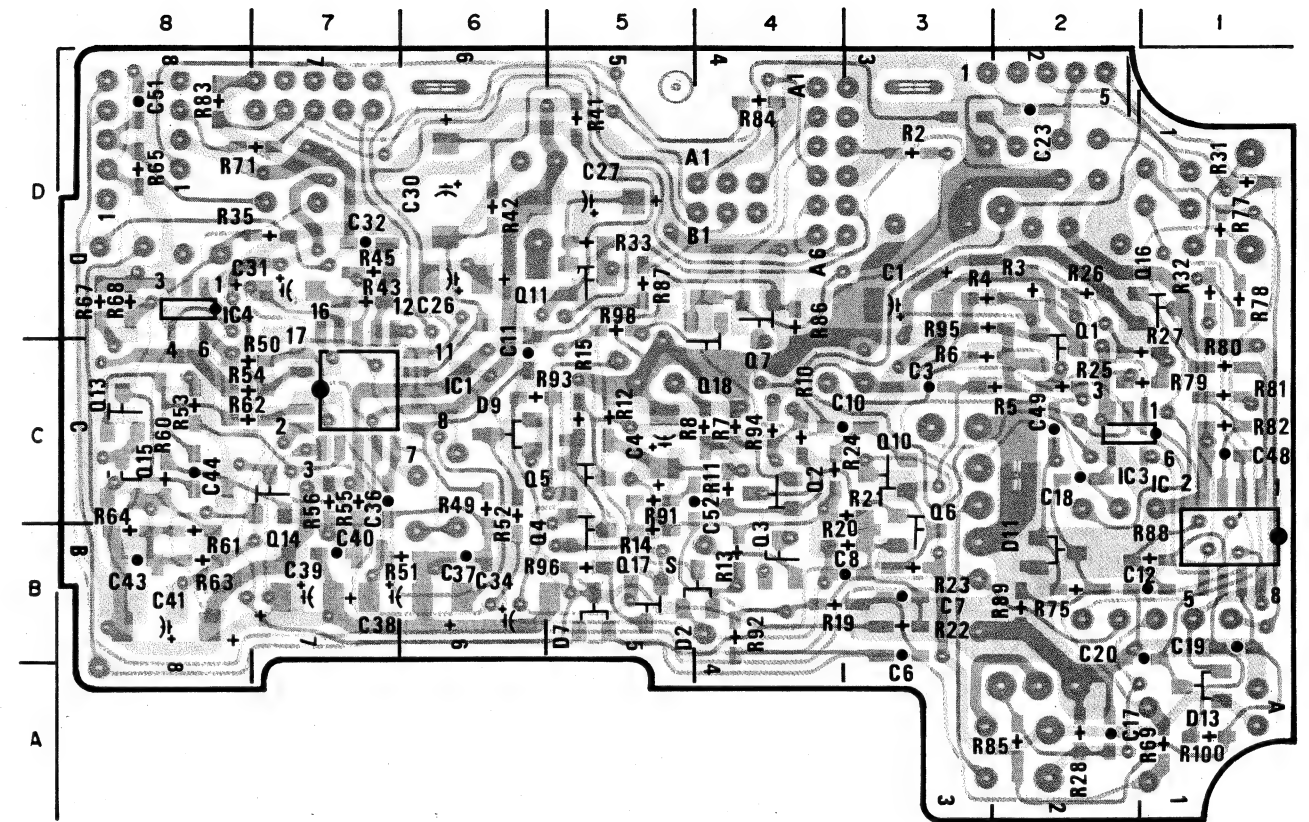
VF-32 -COMPONENT SIDE-

1-625-090-17
BVW-300AP

VF-32;VIEWFINDER
S/N; 41954 through 43999



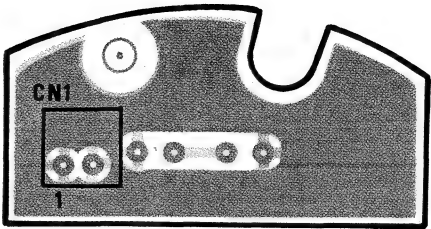
VF-32 -COMPONENT SIDE-
1-625-090-17
BVW-300AP



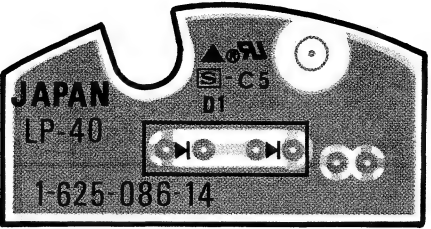
VF-32 -SOLDERING SIDE-
1-625-090-17
BVW-300AP

LP-40;REC LED
 LP-42;FRONT TALLY LED
 LP-58;BATT/TALLY,VTR SAVE LED
 SW-260A;SWITCH BOARD
 VR-67;VOLUME CONTROL

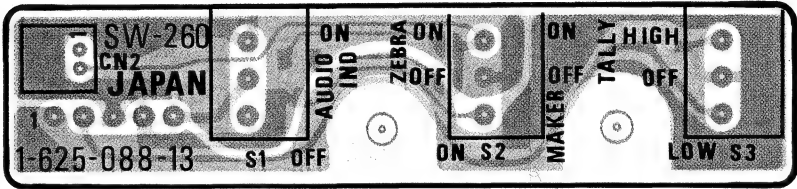
S/N; 41954 through 43999



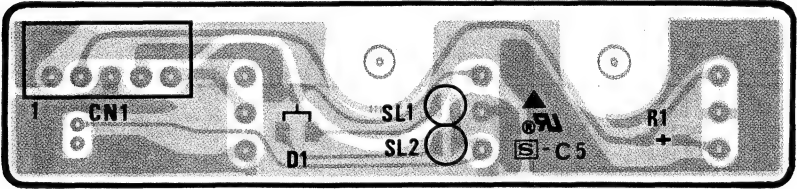
LP-40 -COMPONENT SIDE-
 1-625-086-14
 BVW-300AP



LP-40 -SOLDERING SIDE-
 1-625-086-14
 BVW-300AP



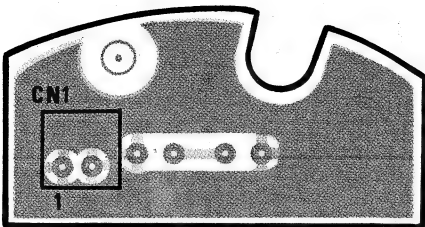
SW-260A -COMPONENT SIDE-
 1-625-088-13
 BVW-300AP



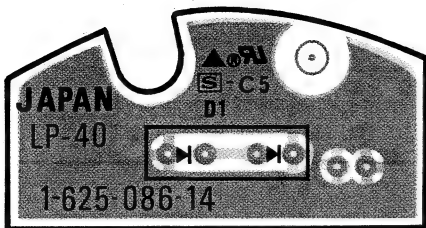
SW-260A -SOLDERING SIDE-
 1-625-088-13
 BVW-300AP

LP-40;REC LED
 LP-42;FRONT TALLY LED
 LP-58;BATT/TALLY,VTR SAVE LED
 SW-260A;SWITCH BOARD
 VR-67;VOLUME CONTROL

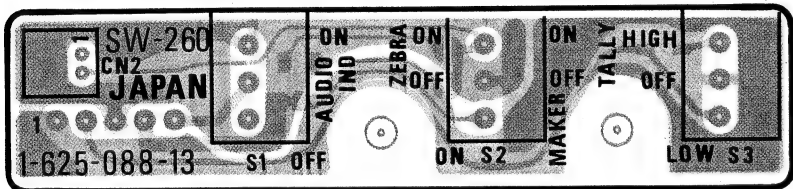
S/N; 41954 through 43999



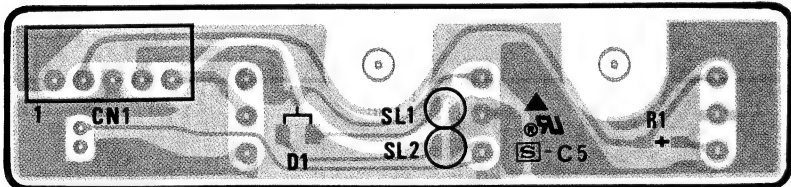
LP-40 -COMPONENT SIDE-
 1-625-086-14
 BVW-300AP



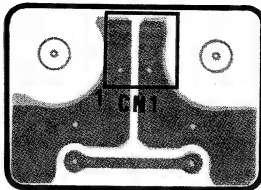
LP-40 -SOLDERING SIDE-
 1-625-086-14
 BVW-300AP



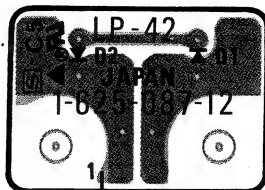
SW-260A -COMPONENT SIDE-
 1-625-088-13
 BVW-300AP



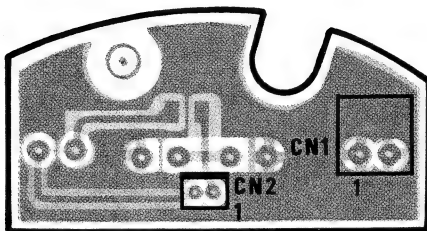
SW-260A -SOLDERING SIDE-
 1-625-088-13
 BVW-300AP



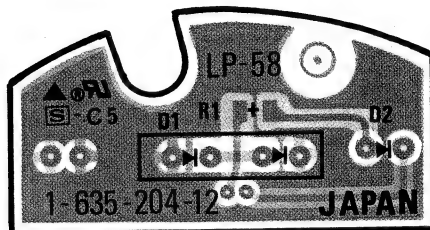
LP-42 -COMPONENT SIDE-
 1-625-087-12
 BVW-300AP



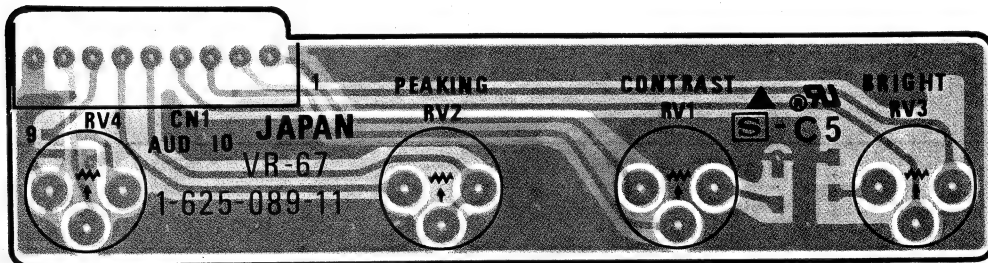
LP-42 -SOLDERING SIDE-
 1-625-087-12
 BVW-300AP



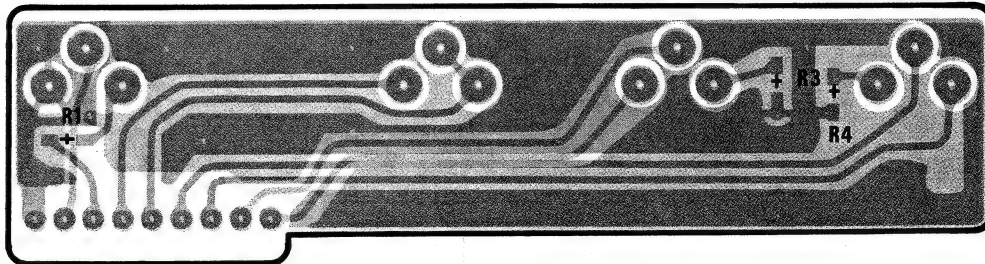
LP-58 -COMPONENT SIDE-
 1-635-204-12
 BVW-300AP



LP-58 -SOLDERING SIDE-
 1-635-204-12
 BVW-300AP



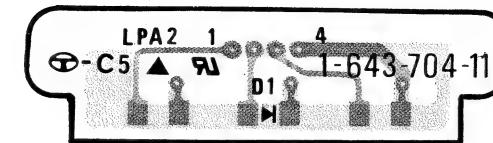
VR-67 -COMPONENT SIDE-
 1-625-089-11
 BVW-300AP



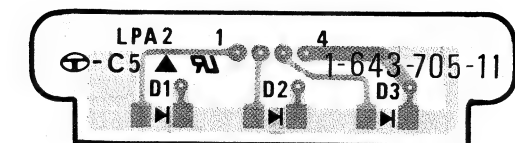
VR-67 -SOLDERING SIDE-
 1-625-089-11
 BVW-300AP

S/N; 44001 and higher

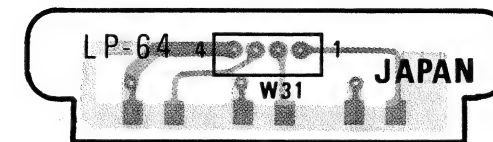
LP-64;REC LED
LP-65;FRONT TALLY LED
LP-66;BATT/TALLY,VTR SAVE LED
SW-526;SWITCH BOARD
VR-149;VOLUME CONTROL
CN-771;CONNECTOR



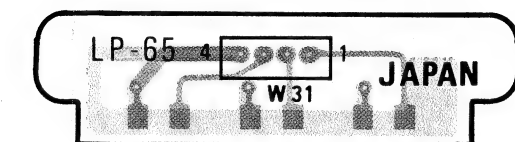
LP-64 -COMPONENT SIDE-
1-643-704-11
BVW-300AP



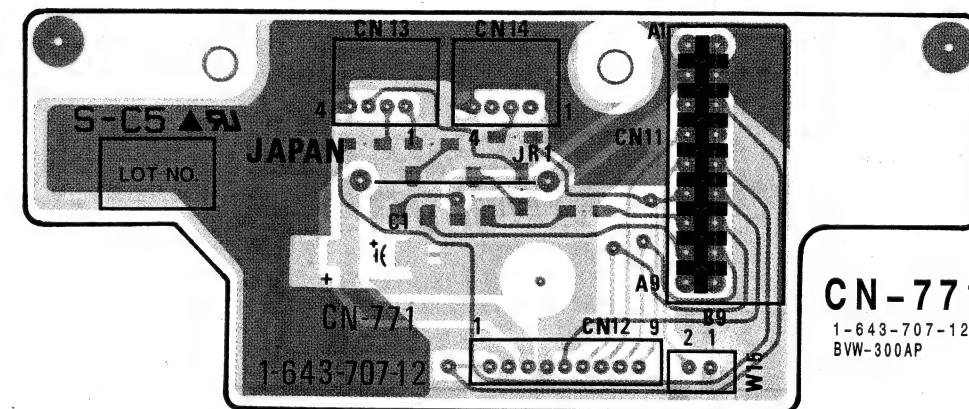
LP-65 -COMPONENT SIDE-
1-643-705-11
BVW-300AP



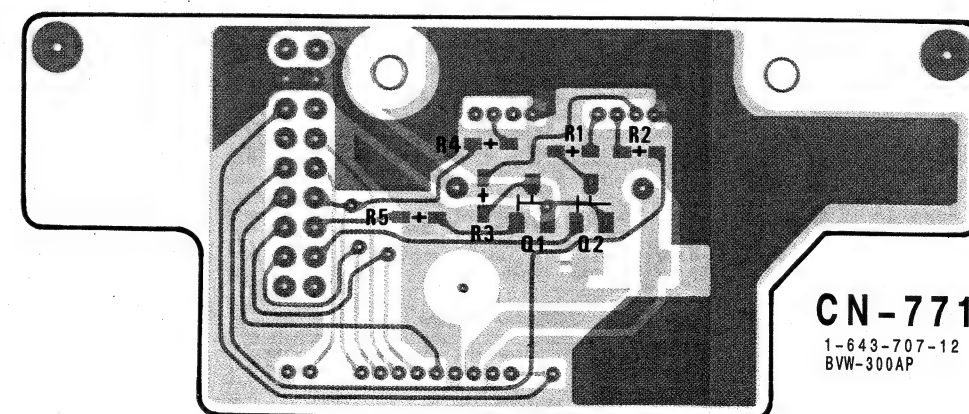
LP-64 -SOLDERING SIDE-
1-643-704-11
BVW-300AP



LP-65 -SOLDERING SIDE-
1-643-705-11
BVW-300AP



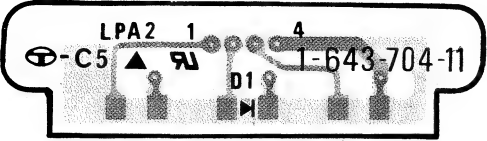
CN-771 -COMPONENT SIDE-
1-643-707-12
BVW-300AP



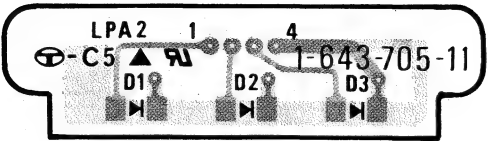
CN-771 -SOLDERING SIDE-
1-643-707-12
BVW-300AP

LP-64;REC LED
LP-65;FRONT TALLY LED
LP-66;BATT/TALLY,VTR SAVE LED
SW-526;SWITCH BOARD
VR-149;VOLUME CONTROL
CN-771;CONNECTOR

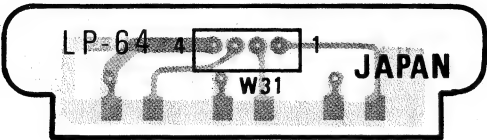
S/N;44001 and higher



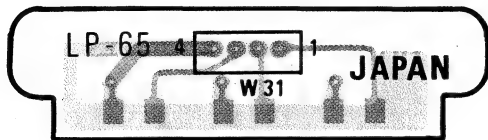
LP-64 -COMPONENT SIDE-
1-643-704-11
BVW-300AP



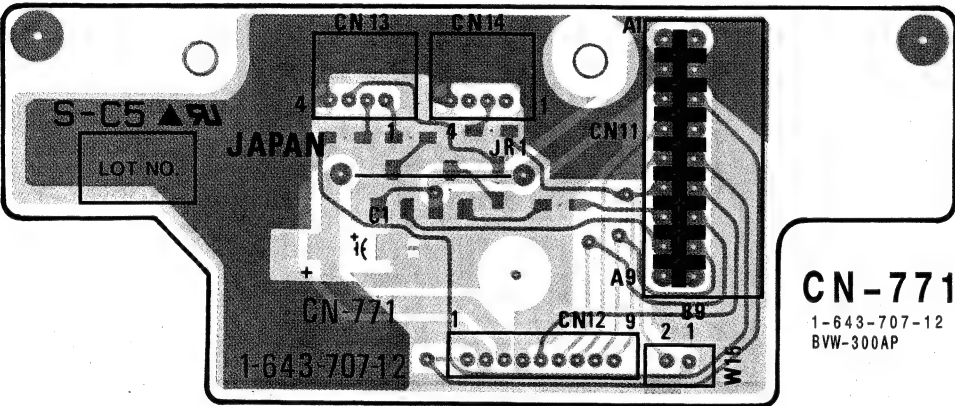
LP-65 -COMPONENT SIDE-
1-643-705-11
BVW-300AP



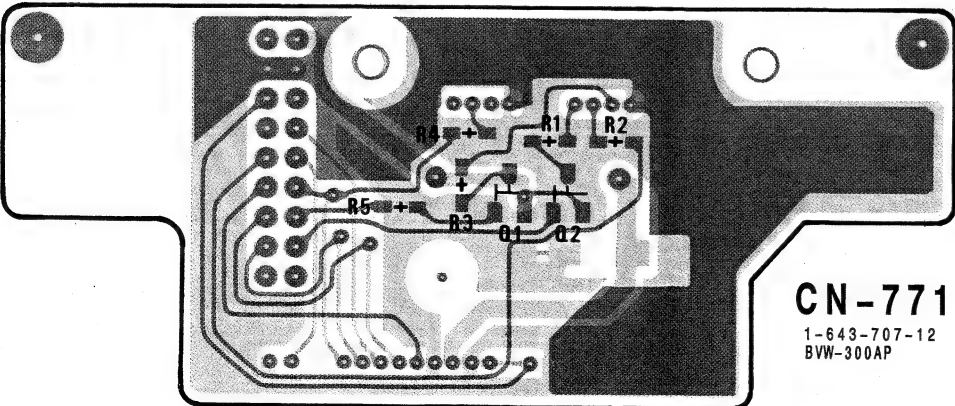
LP-64 -SOLDERING SIDE-
1-643-704-11
BVW-300AP



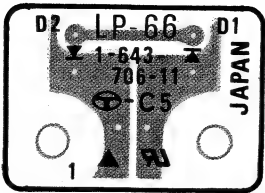
LP-65 -SOLDERING SIDE-
1-643-705-11
BVW-300AP



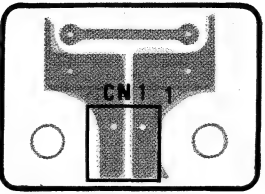
CN-771 -COMPONENT SIDE-
1-643-707-12
BVW-300AP



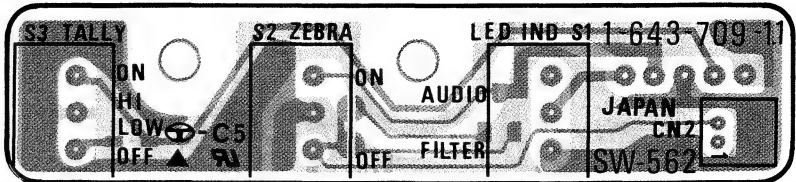
CN-771 -SOLDERING SIDE-
1-643-707-12
BVW-300AP



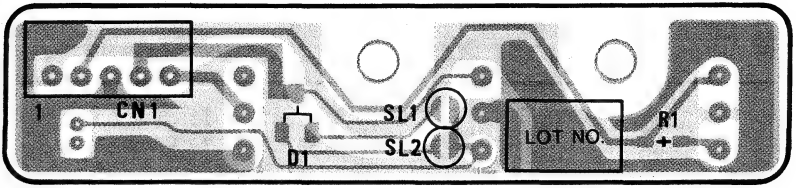
LP-66 -COMPONENT SIDE-
1-643-706-11
BVW-300AP



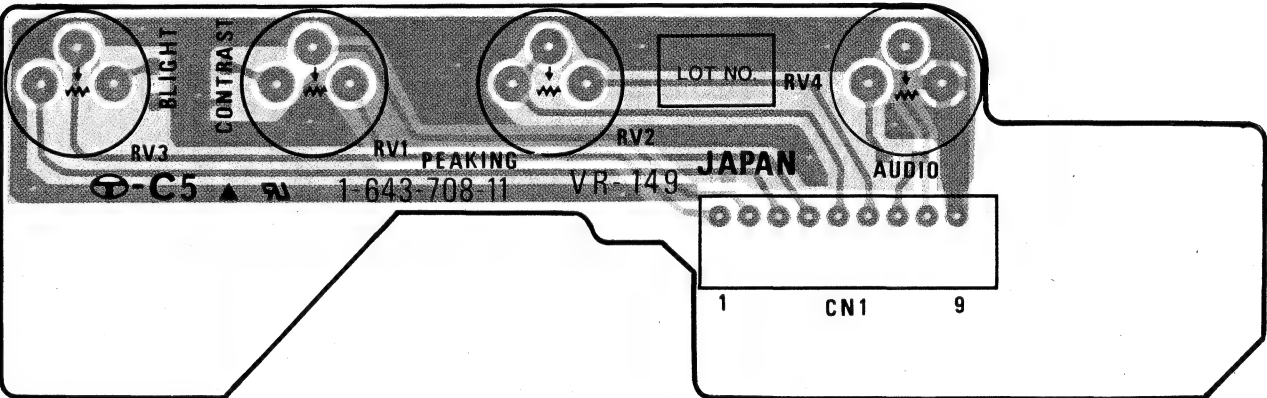
LP-66 -SOLDERING SIDE-
1-643-706-11
BVW-300AP



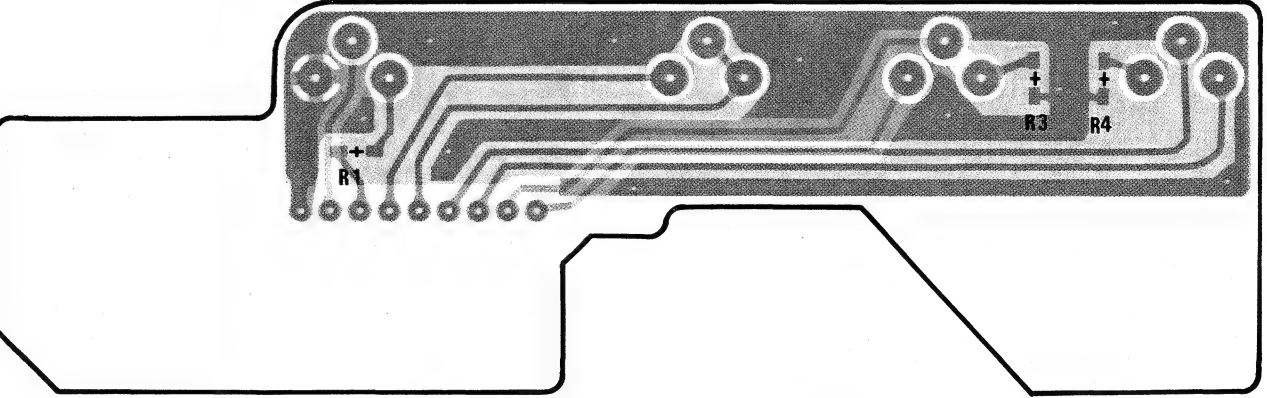
SW-562 -COMPONENT SIDE-
1-643-709-11
BVW-300AP



SW-562 -SOLDERING SIDE-
1-643-709-11
BVW-300AP



VR-149 -COMPONENT SIDE-
1-643-708-11
BVW-300AP



VR-149 -SOLDERING SIDE-
1-643-708-11
BVW-300AP

SECTION 13

SPARE PARTS AND FIXTURE

13-1. PARTS INFORMATION

1. Safety Related Component Warning

Components identified by shading marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

2. Replace parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts."
 - This manual's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present."
 - Regarding engineering parts and diagrams changes in our engineering department, refer to Sony service bulletins and service manual supplements.
3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
5. Regarding engineering parts changes in our engineering department, refer to SECTION 14 "CHANGED PARTS".
6. All capacitors are in micro farads unless otherwise specified.
All inductors are in micro henries unless otherwise specified.
All resistors are in ohms.

FRONT PANEL

13-2. EXPLODED VIEW

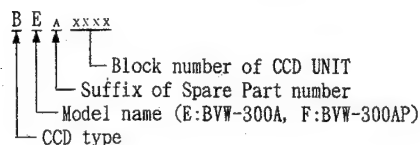
FRONT PANEL

No.	Part No.	SP Description	No.	Part No.	SP Description
1	A-7513-761-A	o MOUNTED CIRCUIT BOARD, CN-273	31	X-3165-654-1	o COVER ASSY, SHIELD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
2	A-7513-942-A	o MOUNTED CIRCUIT BOARD, DR-84	32	X-3710-064-3	o CASE ASSY, SHIELD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
3	A-7513-958-A	o MOUNTED CIRCUIT BOARD, PA-101 Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)	33	3-176-013-01	o RETAINER, PC BOARD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
4	A-7575-162-A	s CCD UNIT-W300A (N) (J,UC)	34	3-188-510-01	o STAY(UPPER), PC BOARD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
5	A-7575-163-A	s CCD UNIT-W300AP (P) (EK)	35	3-188-511-01	o STAY(LOWER), PC BOARD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
6	A-7615-261-A	s SW (B) ASSY, FRONT	36	3-734-514-02	o SUPPORT(Y) Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
7	X-3722-375-9	o FRAME SUB ASSY, FRONT	37	3-734-518-01	o SHEET, INSULATING, SHIELD CASE Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
8	X-3722-439-4	o PLATE (B) ASSY, ORNAMENTAL	38	3-734-519-03	o CASE, SHIELD Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
9	1-547-259-11	o FILTER UNIT, OPTICAL	39	3-734-520-01	o SHEET, INSULATING, SHIELD CASE Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
10	1-554-395-00	s SWITCH, TOGGLE	41	3-734-593-03	o SHEET, SHIELD COVER Serial No. 13001 AND HIGHER(UC) 32001 AND HIGHER(J) 44001 AND HIGHER(EK)
11	1-554-396-00	s SWITCH, TOGGLE	42	3-742-206-01	o SHEET(F), SHIELD COVER
12	1-629-570-11	o PRINTED CIRCUIT BOARD, SW-357			
13	2-623-773-11	s BOLT (M3X8), STAINLESS			
14	3-678-629-00	s LEVER, MOUNT			
15	3-678-684-00	o HOLDER, CABLE			
16	3-699-048-01	s CAP, MOUNT			
17	3-701-505-00	s SET SCREW, DOUBLE POINT 3X3			
18	3-710-024-01	o PACKING, VF			
19	3-710-054-01	s KNOB, FILTER			
20	3-710-057-02	o STAY (T), SHIELD PLATE Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)			
21	3-711-715-01	o RUBBER, SHIELD			
22	3-711-757-01	o SUPPORT Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)			
23	3-711-762-01	o RAIL, TG GUIDE Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)			
24	3-725-295-01	s SCREW, (+) (B3)			
25	3-729-068-01	o PLATE (FR), SHIELD			
26	3-734-712-01	o STAY (B3), SHIELD PLATE Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)			
27	3-742-064-01	o FINGER, SHIELD			
28	3-884-053-00	s RING (O)			
29	3-174-522-01	o COVER (2), TG SHIELD Serial No. UP TO 12999(UC) UP TO 31999(J) UP TO 43999(EK)			

*1) CCD BLOCK NUMBER; B E A xxxx

*2) CCD BLOCK NUMBER; B F A xxxx

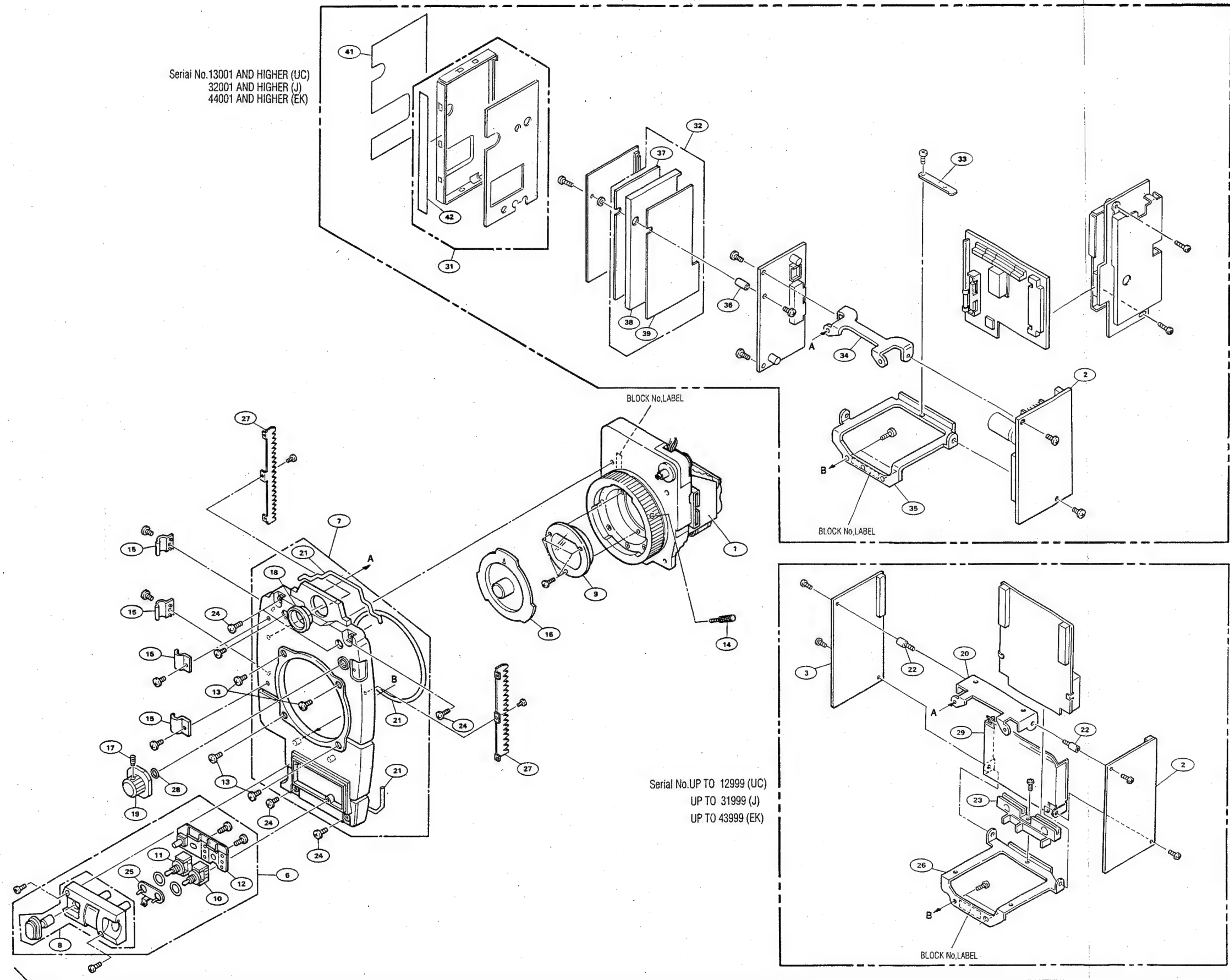
How to read the CCD BLOCK NUMBER

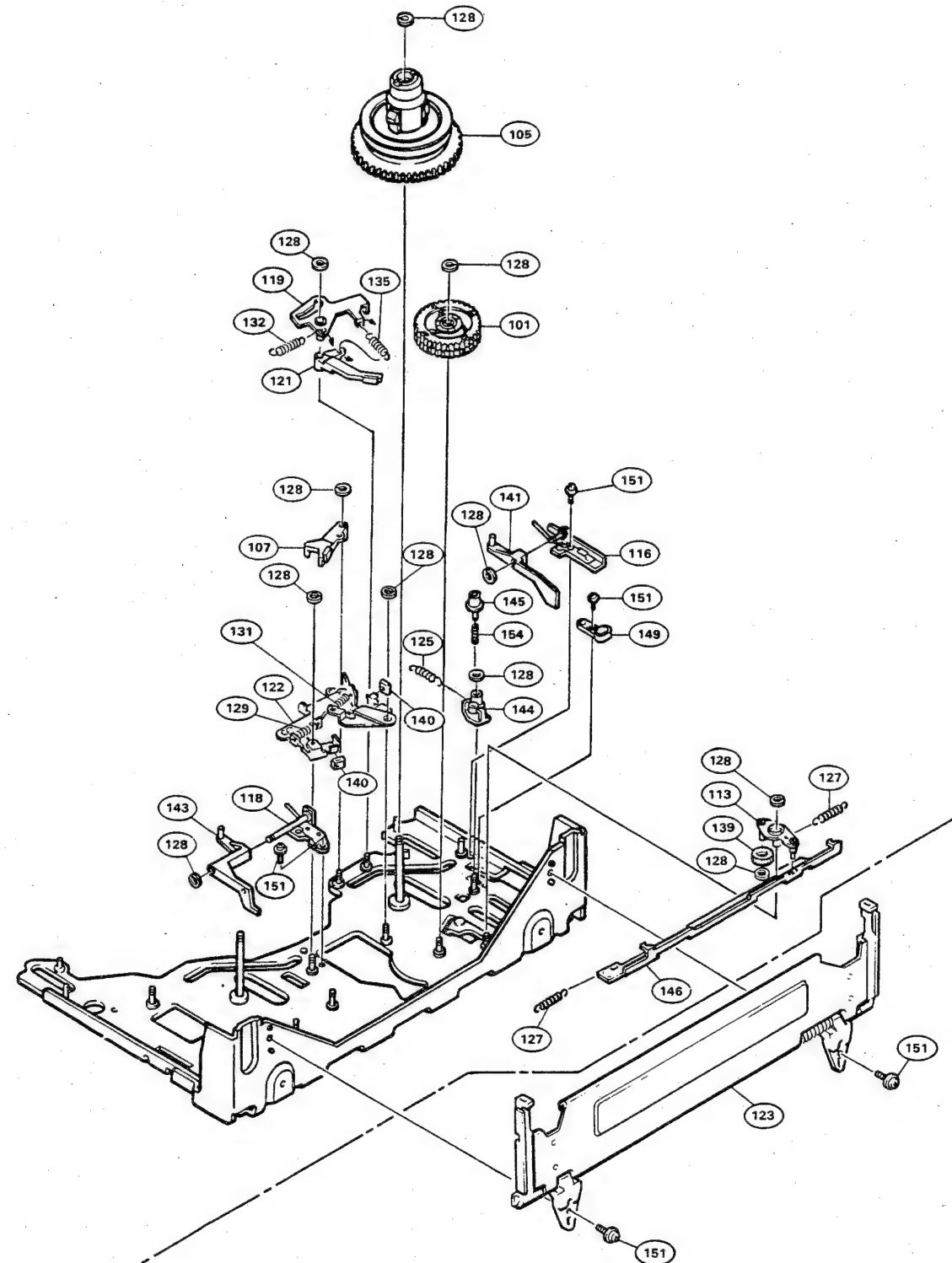
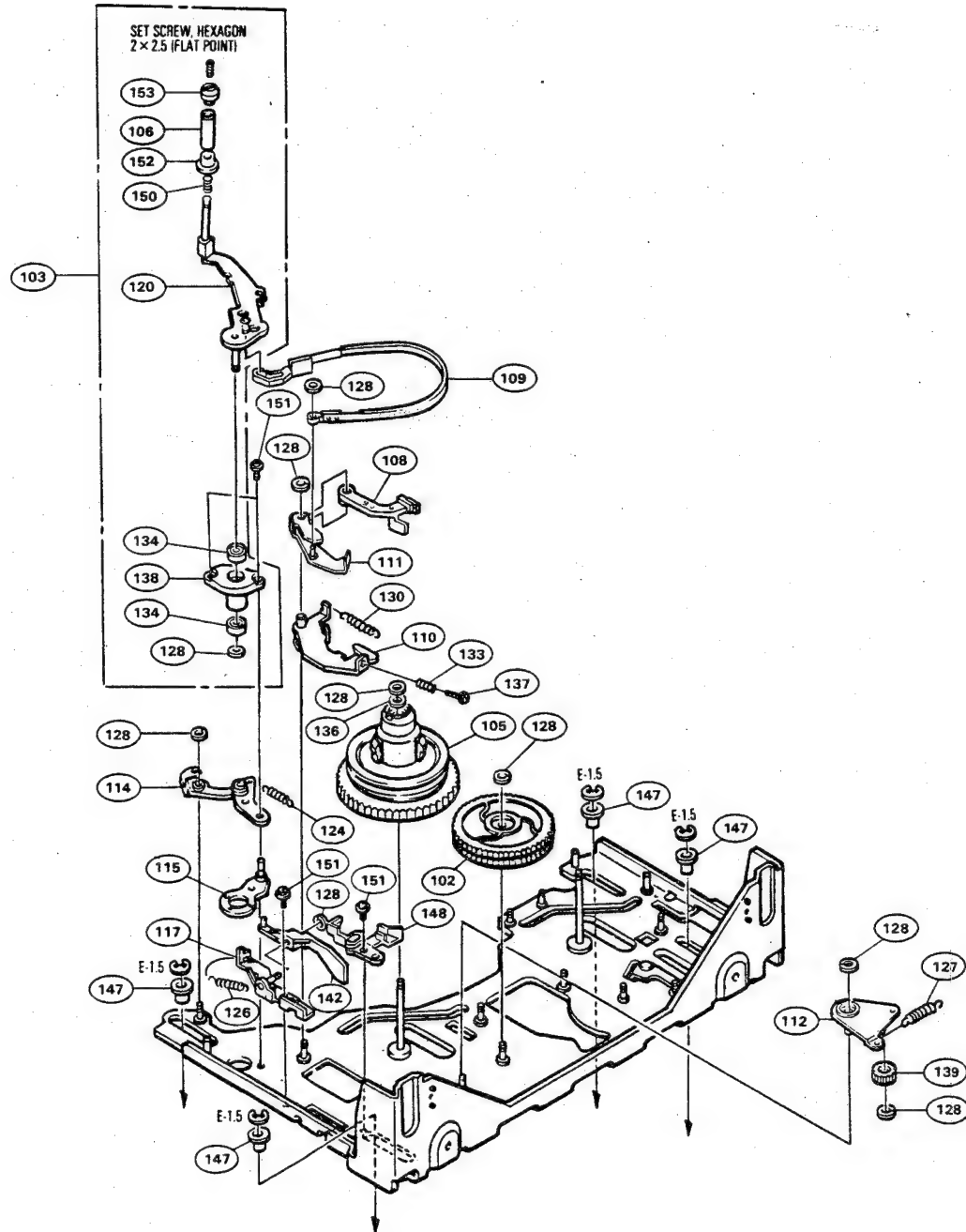


BVW-300A(J, UC)
BVW-300AP(EK)
(BKW-301/301P)

FRONT PANEL

Serial No.13001 AND HIGHER (UC)
32001 AND HIGHER (J)
44001 AND HIGHER (EK)





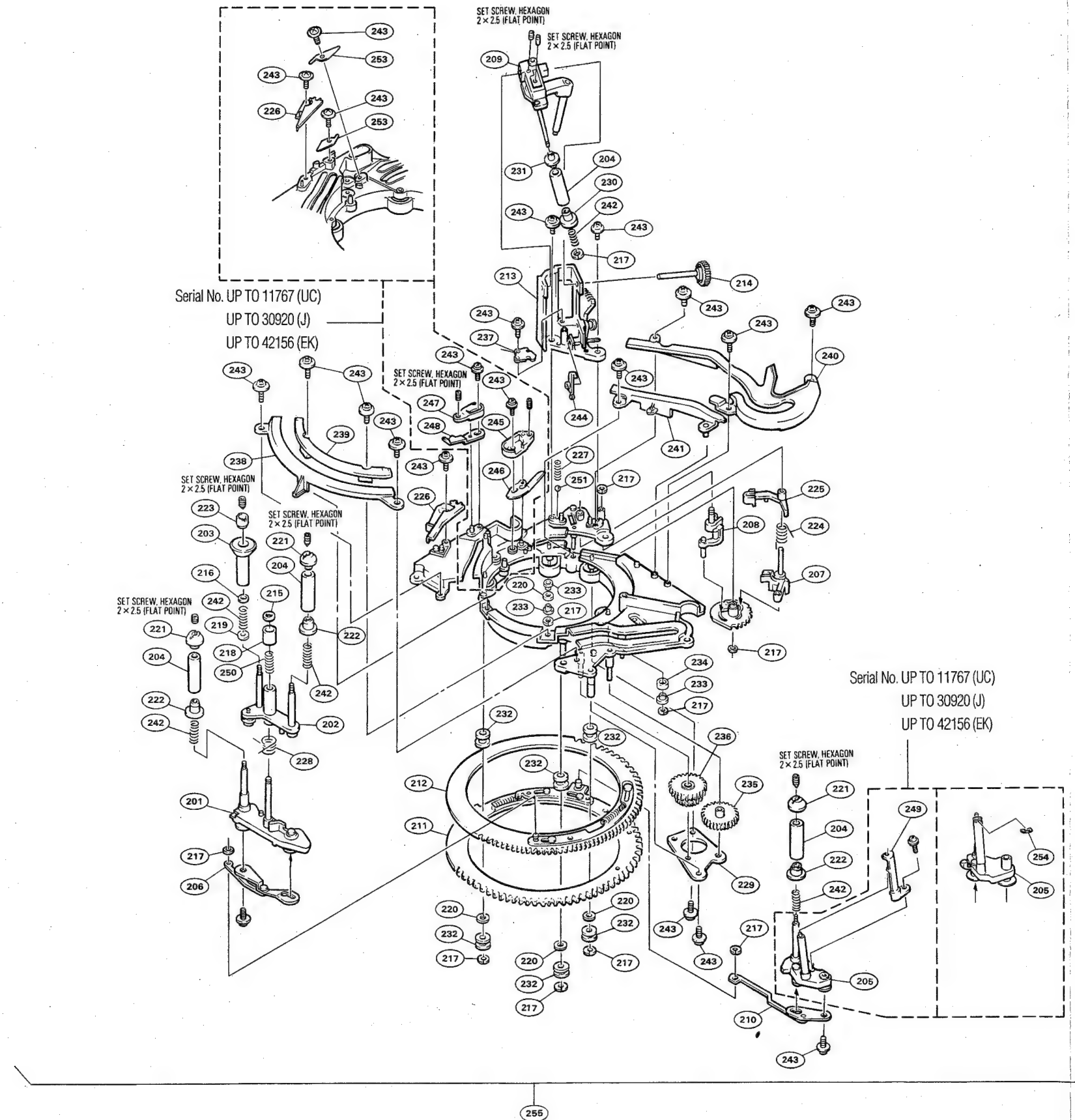
REEL CHASSIS

No.	Part No.	SP Description
101	A-6740-091-D	s IDLER ASSY, T
102	A-6740-092-D	s IDLER ASSY, S
103	A-6742-067-K	o TENSION REGULATOR ASSY
104	A-6771-030-J	o CHASSIS ASSY, REEL
105	X-3722-321-3	s TABLE ASSY, REEL
106	X-3722-322-1	s ROLLER ASSY, POM
107	X-3722-323-1	s BRAKE ASSY, T SOFT
108	X-3722-324-3	s BRAKE ASSY, S SOFT
109	X-3722-325-3	s BAND ASSY, TENSION REGULATOR
110	X-3722-326-2	o LEVER (A) ASSY, SUPPORT LEVER
111	X-3722-327-3	o SUPPORT (B) ASSY, BAND
112	X-3722-328-1	o ARM ASSY, S JOINT GEAR
113	X-3722-329-1	o ARM ASSY, T JOINT GEAR
114	X-3722-330-1	o HOOK ASSY, SPRING
115	X-3722-331-1	o DRIVING ASSY, TENSION REGULATOR
116	X-3722-332-1	o HOLDER (A) ASSY
117	X-3722-333-3	o HOLDER (B) ASSY
118	X-3722-334-1	o HOLDER (C) ASSY
119	X-3722-335-2	o LEVER ASSY, PINCH ARM LOCK
120	X-3722-351-8	o ARM ASSY, TENSION REGULATOR
121	X-3722-410-1	s BRAKE ASSY, T SUB SOFT
122	X-3722-421-1	o SLIDER ASSY, BRAKE
123	X-3722-423-1	o PLATE (B) ASSY, BLIND
124	3-489-310-XX	s SPRING, TENSION, T19
125	3-514-127-01	s SPRING, TENSION
126	3-527-025-00	s SPRING, TENSION
127	3-527-189-11	s SPRING, TENSION
128	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2
129	3-564-935-00	s SPRING, TENSION
130	3-567-028-11	s SPRING, TENSION
131	3-570-590-00	s SPRING, TENSION
132	3-570-951-00	s SPRING, TENSION
133	3-573-150-00	s SPRING, COMPRESSION
134	3-650-312-00	s BEARING, BALL (NO FLANGE)
135	3-667-309-00	s SPRING, TENSION
136	3-701-437-21	s WASHER
137	3-703-502-71	s SCREW
138	3-722-325-02	o BOSS, ARM BEARING
139	3-722-344-01	s GEAR, JOINT
140	3-722-354-01	o RUBBER, BRAKE
141	3-722-357-01	s LEVER (A), REC, MISTAKE
142	3-722-360-01	s LEVER (B), REC, MISTAKE
143	3-722-363-01	s LEVER, METAL DETECTION
144	3-722-367-01	o HOLDER, DETECTION PIN
145	3-722-368-01	o PIN, CASSETTE DETECTION
146	3-722-458-03	o LINK (A), JOINT GEAR
147	3-723-007-01	s ROLLER, LS
148	3-723-011-03	s HOLDER (RIGHT), SLIDE PIN
149	3-723-012-01	s HOLDER (LEFT), SLIDE PIN
150	3-729-011-01	s SPRING, COMPRESSION
151	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
152	3-729-026-04	o FLANGE (B), LOWER
153	3-729-079-05	s FLANGE, UPPER, TENSION REGULATOR
154	4-879-762-00	s SPRING, COMPRESSION

SLANT

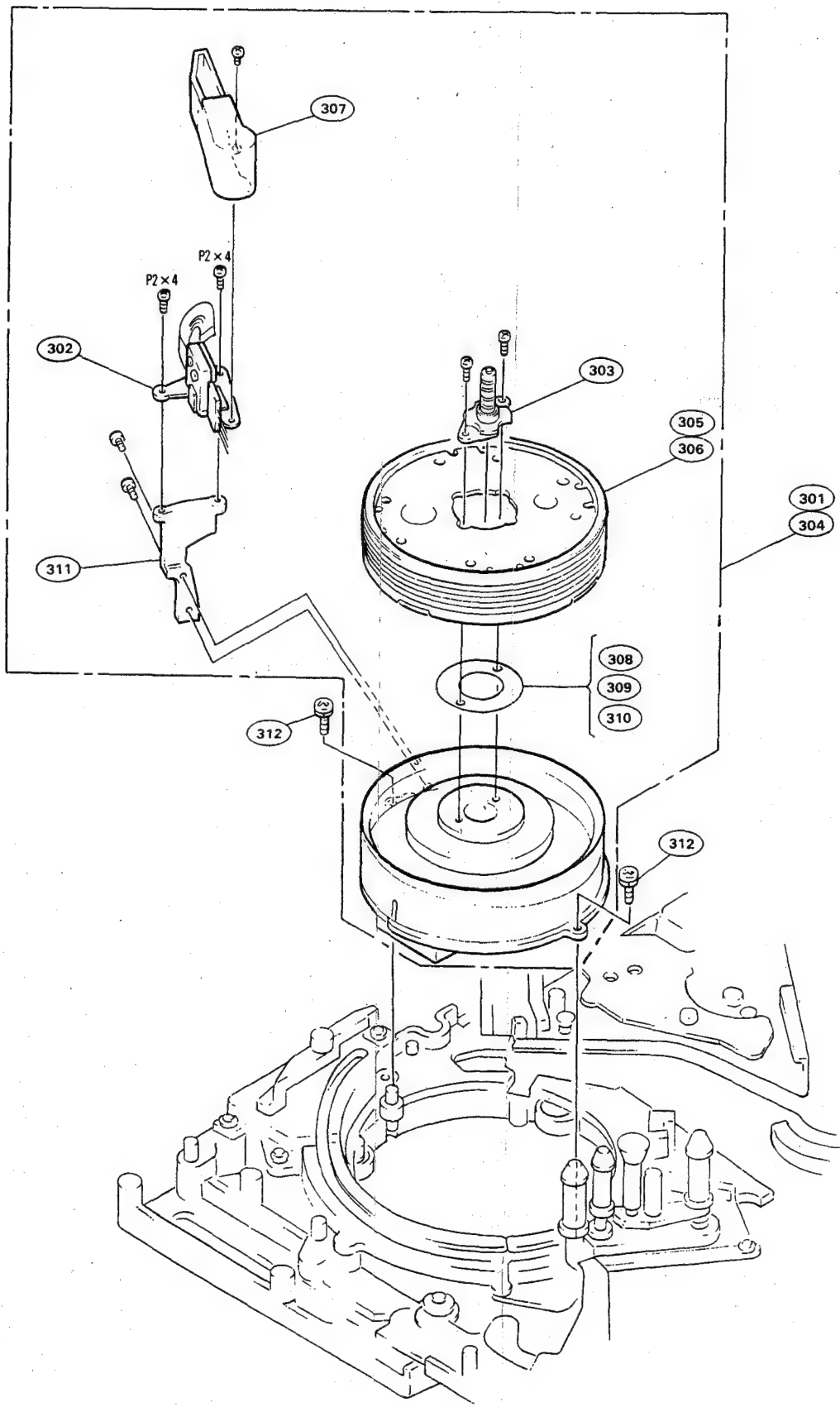
No.	Part No.	SP Description		
201	X-3722-313-5	s BASE ASSY, S	241	3-725-218-02 s RAIL (I), T
202	X-3722-314-3	s BASE ASSY, S SUB	242	3-729-011-01 s SPRING, COMPRESSION
203	X-3722-315-2	s IR-2 ASSY	243	3-729-013-21 s SCREW(M1.4X2.5), WASHERHEAD(+P)
204	X-3722-319-1	s ROLLER ASSY	244	3-729-020-01 o PLATE, FIXED, T SUB
205	X-3167-773-1	s BASE ASSY (RP), T	245	3-729-040-01 o PLATE, INDICATION, T
		Serial No. UP TO 11767 (UC)		Serial No. UP TO 11767 (UC)
		UP TO 30920 (J)		UP TO 30920 (J)
		UP TO 42156 (EK)		UP TO 42156 (EK)
	X-3722-355-5	s BASE ASSY, T		
		Serial No. 11768 AND HIGHER (UC)	246	3-729-041-01 o SPRING
		30921 AND HIGHER (J)		Serial No. UP TO 11767 (UC)
		42157 AND HIGHER (EK)		UP TO 30920 (J)
				UP TO 42156 (EK)
206	X-3722-382-1	o PULL ASSY, S	247	3-729-042-01 o PLATE, INDICATION, S
207	X-3722-383-2	o LINK ASSY, T SUB FIXED		Serial No. UP TO 11767 (UC)
208	X-3722-384-3	o LINK ASSY, T SUB ROTARY		UP TO 30920 (J)
209	X-3722-385-5	s BASE ASSY, T SUB		UP TO 42156 (EK)
210	X-3722-386-2	o PLATE ASSY, PULL, T	248	3-729-043-01 o SPRING
				Serial No. UP TO 11767 (UC)
211	X-3722-388-5	o RING (T) ASSY, LOATING		UP TO 30920 (J)
212	X-3722-389-3	o RING (S) ASSY, LOATING		UP TO 42156 (EK)
213	X-3722-390-2	o TABLE ASSY, ROTARY, T SUB	249	3-729-073-01 s GUIDE, TENSION
214	X-3722-409-1	o SHAFT ASSY, MAIN, T SUB ROTARY		Serial No. UP TO 11767 (UC)
215	3-321-813-01	s WASHER, COTTER POLYETHYLENE		UP TO 30920 (J)
				UP TO 42156 (EK)
216	3-557-565-00	s WASHER, 1.4 DAI, SMALL	250	4-879-762-02 s SPRING, COMPRESSION
217	3-559-408-11	s WASHER, POLYETHYLENE, DIA. 1.2		
218	3-657-842-01	s SPACER (3X4)	251	7-671-154-01 s STENLESS BALL
219	3-695-567-01	s WASHER, M SLIDER	252	3-669-481-02 s PIN (DIA. L) PARALLEL
220	3-701-436-01	s WASHER, 1.6	253	3-179-393-01 s GUIDE PLATE
				Serial No. 11768 AND HIGHER (UC)
221	3-722-400-02	s FLANGE (C), UPPER		30921 AND HIGHER (J)
222	3-722-401-02	s FLANGE (A), LOWER		42157 AND HIGHER (EK)
223	3-722-402-02	o NUT, IR	254	3-179-394-01 s H GUIDE
224	3-724-770-01	o SPRING		Serial No. 11768 AND HIGHER (UC)
225	3-724-772-02	o ARM, T, S FIXED		30921 AND HIGHER (J)
				42157 AND HIGHER (EK)
226	3-724-775-02	o PLATE, OPEN, S	255	A-8274-742-A o SLANT ASSY (RP)
227	3-724-788-01	s SPRING, COMPRESSION		
228	3-724-789-02	s SPRING		
229	3-724-792-02	o REINFORCEMENT, GEAR		
230	3-724-793-02	s FLANGE (A), ROLLER		
231	3-724-794-01	s FLANGE (B), ROLLER		
232	3-724-799-01	s FLANGE, RING		
233	3-725-201-01	s ROLLER, RING		
234	3-725-202-02	o ROLLER, SUB		
235	3-725-203-01	o GEAR, S DRIVING MIDWAY		
236	3-725-204-01	o GEAR, S DRIVING		
237	3-725-205-01	o PLATE, ADJUSTMENT, T SUB		
238	3-725-214-02	s RAIL (O), S		
239	3-725-215-02	s RAIL (I), S		
240	3-725-217-04	s RAIL (O), T		

SLANT



DRUM

DRUM



DRUM

DRUM

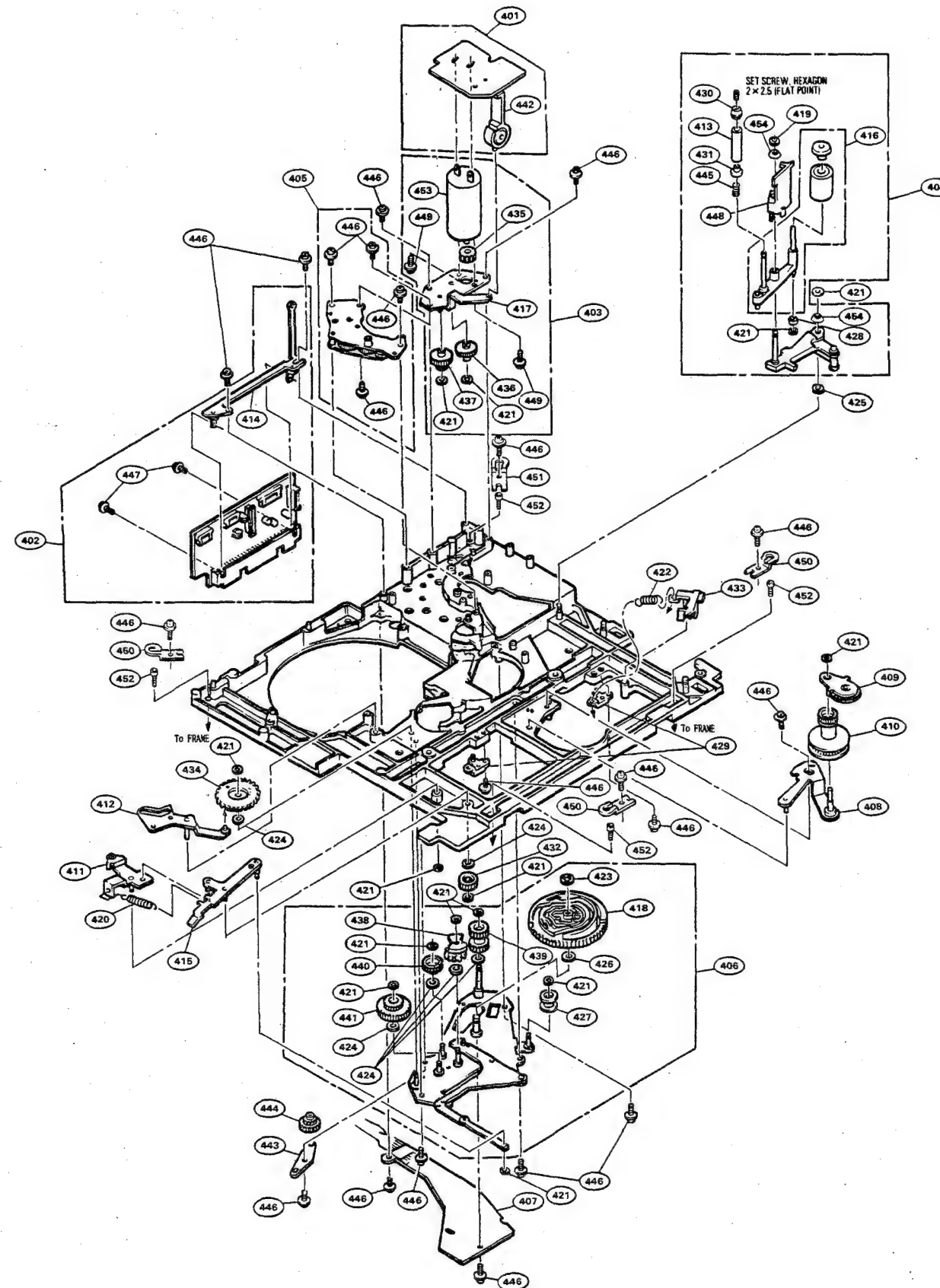
No.	Part No.	SP Description
301	A-6050-611-A	s HEAD DRUM ASSY DBH-14A-R (EK)
302	A-6050-648-A	s BRUSH ASSY
303	A-6050-652-A	s SLIP RING ASSY
304	A-6050-673-A	s HEAD DRUM ASSY DBH-15A-R (J,UC)
305	A-6762-406-A	s UPPER DRUM ASSY DBR-14A-R (EK)
306	A-6762-418-A	s UPPER DRUM ASSY DBR-15A-R (J,UC)
307	3-717-148-01	o COVER, BLUSH
308	3-717-150-01	s SPACER, FRANGE (0.01T)
309	3-717-150-11	s SPACER, FRANGE (0.03T)
310	3-717-150-21	s SPACER, FRANGE (0.05T)
311	3-717-178-03	o SUPPORT, BRUSH
312	3-729-012-01	s SCREW (M2X5)

LOADING GEAR/CAM GEAR

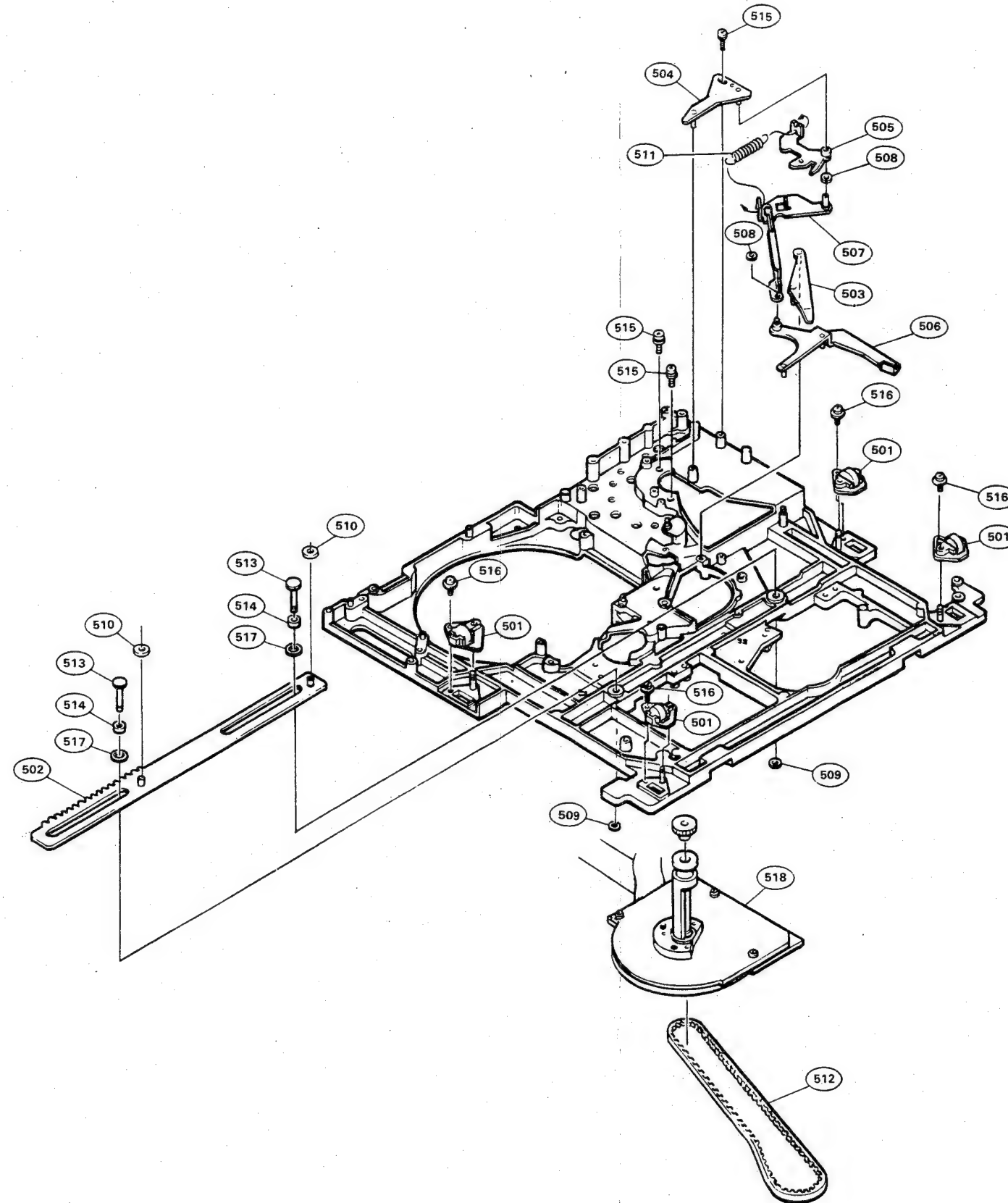
LOADING GEAR/CAM GEAR

No.	Part No.	SP Description
401	A-6725-602-A	o MOUNTED CIRCUIT BOARD, LD-21
402	A-6725-604-A	o MOUNTED CIRCUIT BOARD, TB-5
403	A-6737-190-C	o MOTOR ASSY, LOADING
404	A-6747-262-K	o ARM ASSY, PINCH
405	A-6750-231-B	s GEAR BLOCK ASSY
406	A-6750-233-B	o GEAR SUB ASSY, CAM
407	A-6754-072-A	o MOUNTED CIRCUIT BOARD, SR-40
408	X-3722-304-1	o BASE ASSY
409	X-3722-306-3	s GEAR ASSY
410	X-3722-307-1	o PULLEY ASSY, MIDWAY
411	X-3722-308-1	o LEVER ASSY, RELEASE, ST
412	X-3722-316-1	o ARM ASSY, DRIVING
413	X-3722-319-1	s ROLLER ASSY
414	X-3722-343-1	o HOLDER (40P) ASSY, CONNECTOR
415	X-3722-357-1	o LINK ASSY, EJECT
416	X-3722-363-4	s PINCH ASSY, SUB
417	X-3722-364-3	o BRACKET ASSY, MOTOR
418	X-3722-369-2	s CAM ASSY, FUNCTION
419	3-321-813-01	s WASHER, COTTER POLYETHYLENE
420	3-531-794-00	s SPRING, TENSION
421	3-559-408-11	s WASHER, POLYETHYLENE, DIA.1.2
422	3-668-508-00	s SPRING, TENSION
423	3-669-595-00	s WASHER (2), STOPPER
424	3-701-436-11	s WASHER, 1.6 POLYETHYLENE
425	3-701-438-01	s WASHER
426	3-701-438-21	s WASHER
427	3-722-369-01	s PULLEY, IDLER
428	3-722-382-01	s ROLLER, PINCH ARM
429	3-722-390-01	o HOOK, SPRING, SHUTTER
430	3-722-400-02	s FLANGE (C), UPPER
431	3-722-401-02	s FLANGE (A), LOWER
432	3-722-430-01	o GEAR, JOINT
433	3-722-460-01	o SHUTTER, CASSETTE DETECTION
434	3-723-010-01	o GEAR, REEL SLIDER DRIVING
435	3-723-062-01	s GEAR (MO)
436	3-723-064-01	s GEAR (M1)
437	3-723-065-01	s GEAR (M2)
438	3-723-080-02	o GEAR, CLUB
439	3-723-081-01	o GEAR (T)
440	3-723-082-02	o GEAR, T DRIVING MIDWAY
441	3-723-083-02	o GEAR, ST DRIVING
442	3-723-091-01	s HOLDER, TOP SENSOR
443	3-725-206-01	o BRACKET, T GEAR
444	3-725-207-02	o GEAR, T DRIVING
445	3-729-011-01	s SPRING, COMPRESSION
446	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
447	3-729-013-41	s SCREW(M1.4X2.5), WASHERHEAD(+P)
448	3-729-046-03	o GUARD, PINCH TAPE
449	3-729-076-01	s SCREW (+B) (2X3)
450	3-729-081-01	o RETAINER (A), SCREW
451	3-729-082-01	o RETAINER (B), SCREW
452	3-729-084-21	s BOLT (M2X5), HEXAGON HOLE
453	8-835-308-01	s MOTOR, DC LN18-S1N1B
454	3-729-098-01	s WASHER, SPRING

LOADING GEAR/CAM GEAR



PINCH PRESS MECHANISM



PINCH PRESS MECHANISM

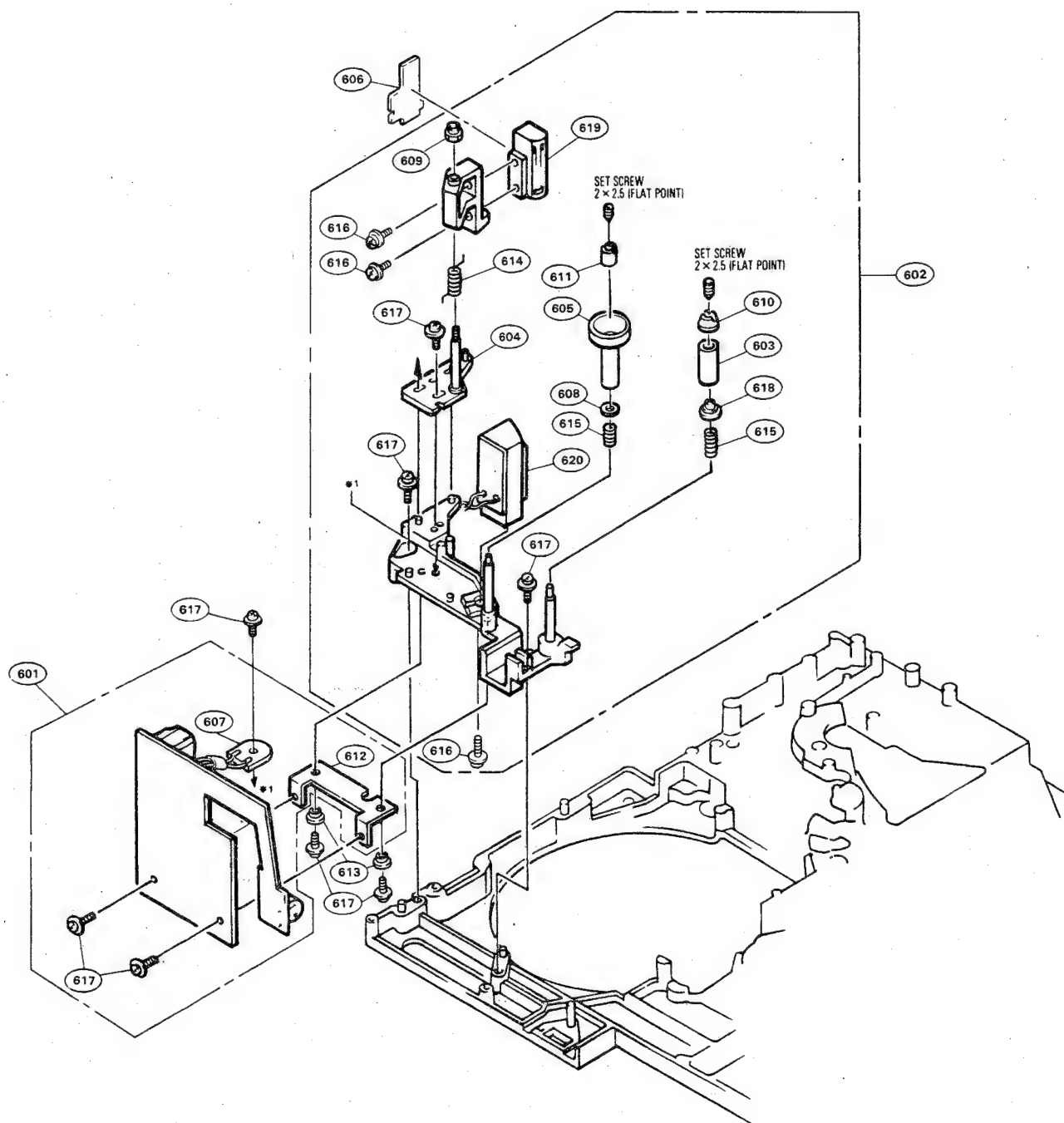
No.	Part No.	SP Description
501	X-3722-301-1 s	ROLLER ASSY, REEL CHASSIS
502	X-3722-309-1 o	SLIDER ASSY, REEL
503	X-3722-310-3 o	LEVER ASSY, BRAKE
504	X-3722-311-1 o	SUPPORT ASSY, P LEVER
505	X-3722-312-1 o	LEVER (C) ASSY, PRESS
506	X-3722-345-1 o	JOINT ASSY, PINCH
507	X-3722-346-2 o	LEVER ASSY, PRESS
508	3-559-408-00 s	POLY-WASHER, 1.2 DIA
509	3-559-408-11 s	WASHER, POLYETHYLENE, DIA. 1.2
510	3-701-439-21 s	WASHER
511	3-701-788-XX s	SPRING, TENSION, T18
512	3-722-452-01 s	BELT, TIMING
513	3-723-008-01 o	RETAINER, ROLLER
514	3-723-009-01 s	ROLLER, SLIDER PLATE
515	3-729-012-01 s	SCREW (M2X5)
516	3-729-013-21 s	SCREW(M1.4X2.5), WASHERHEAD(+P)
517	3-729-025-01 s	WASHER
518	8-835-313-01 s	MOTOR, DC U-19A

CTL HEAD BASE

CTL HEAD BASE

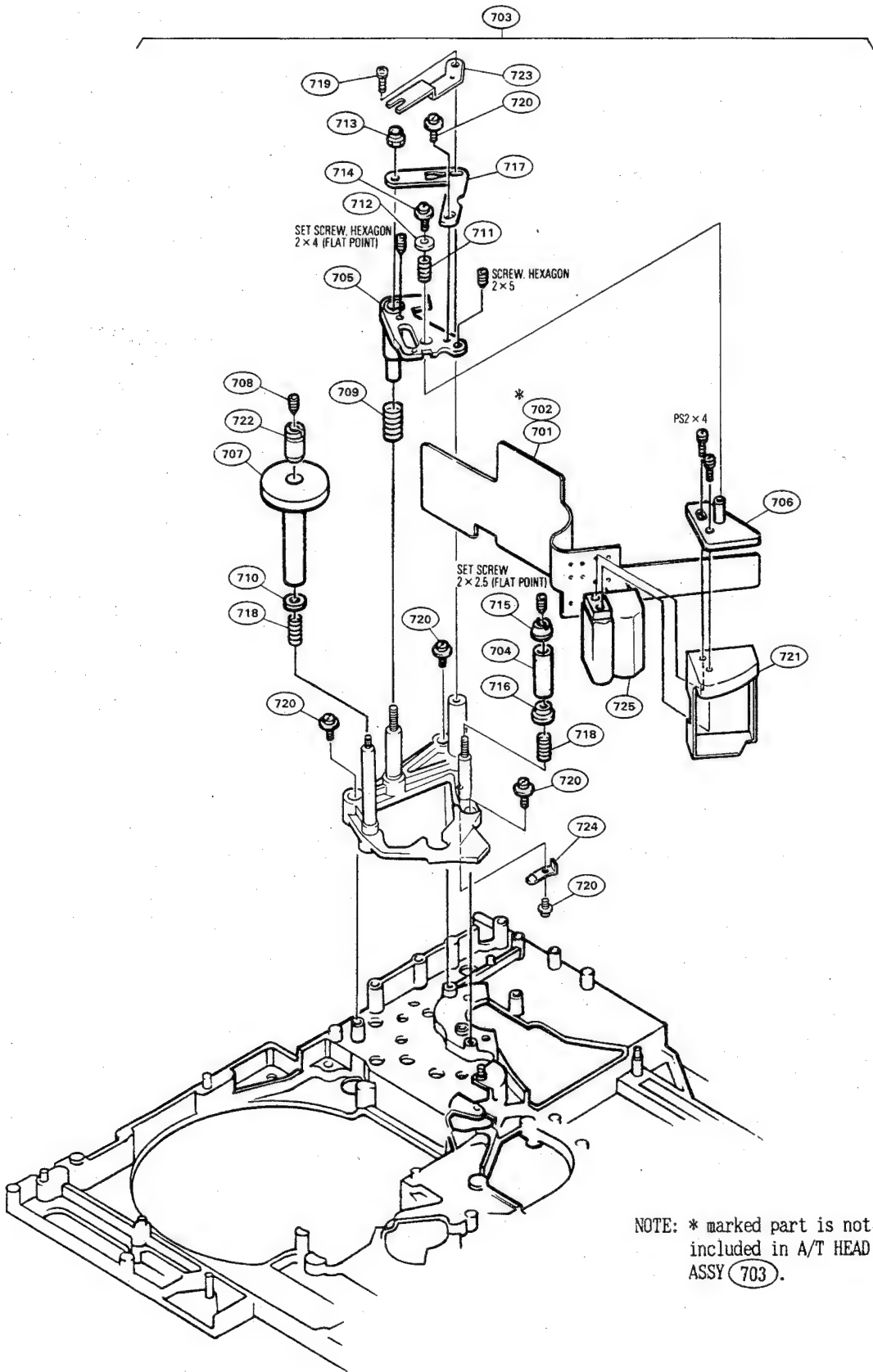
No.	Part No.	SP Description
601	A-6725-603-A	o MOUNTED CIRCUIT BOARD, FE-4
602	A-6736-080-E	o HEAD SUB ASSY, CTL
603	X-3722-322-1	s ROLLER ASSY, POM
604	X-3722-341-1	o PLATE ASSY, HEAD, CTL
605	X-3722-342-4	s IR-1 ASSY
606	1-625-969-11	o PC BOARD, DUS-246
607	1-806-682-71	s SENSER, DEW CONDENSATION
608	3-557-565-00	s WASHER, 1.4 DAI, SMALL
609	3-698-829-01	s NUT (M2)
610	3-722-400-02	s FLANGE (C), UPPER
611	3-722-402-02	o NUT, IR
612	3-722-419-01	o HOLDER, FE-4
613	3-722-420-01	s SPACER, FE-4 HOLDER
614	3-723-092-02	s SPRING
615	3-729-011-01	s SPRING, COMPRESSION
616	3-729-012-01	s SCREW (M2X5)
617	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
618	3-742-003-01	s FLANGE (S), LOWER
619	8-825-560-41	s HEAD, CTL (RS-253-21)
620	8-825-772-61	s HEAD, ERASE EF291-21A

CTL HEAD BASE



A/T HEAD BASE

A/T HEAD BASE



BVW-300A (J,UC)
BVW-300AP (EK)

A/T HEAD BASE

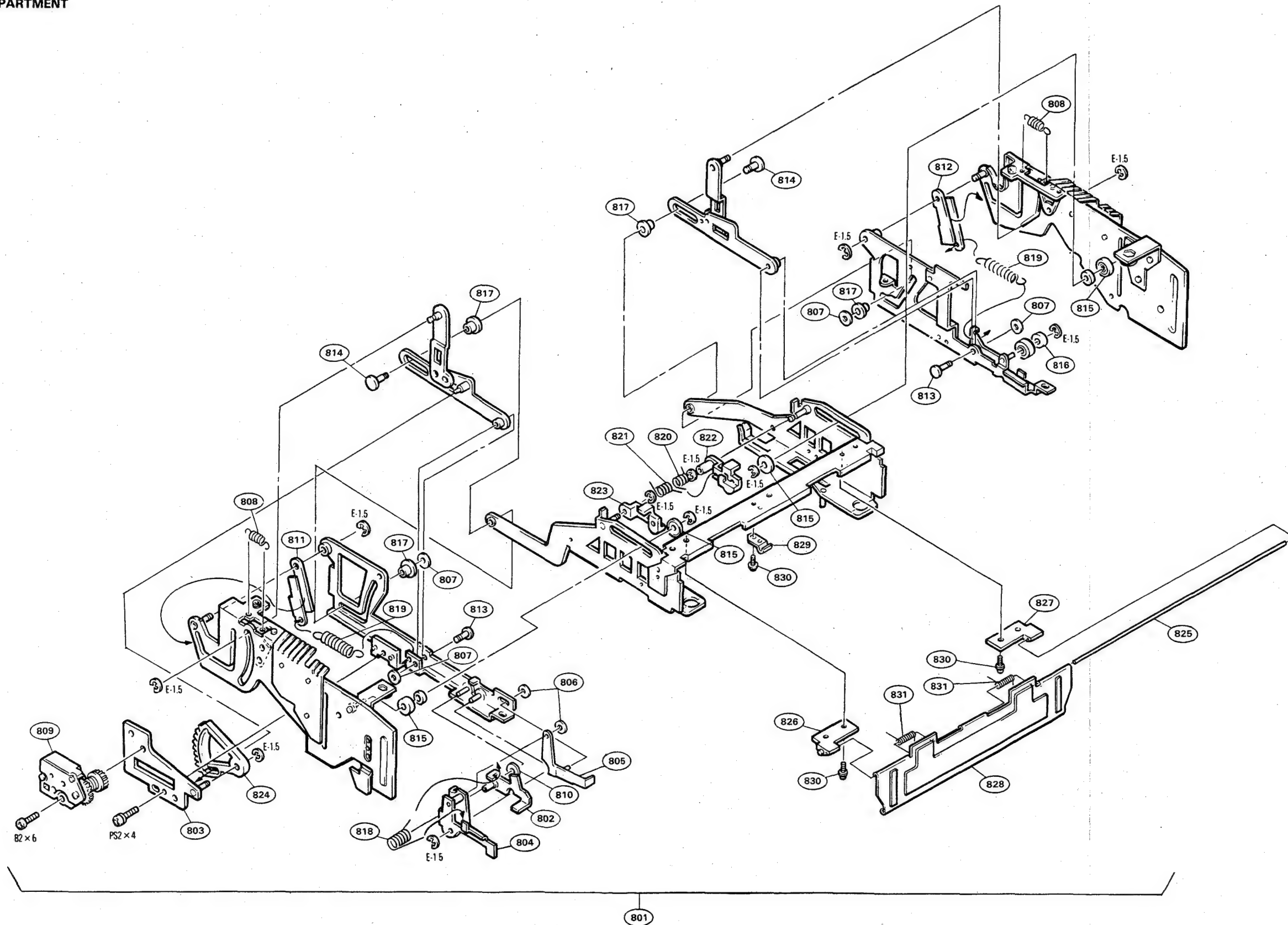
No.	Part No.	SP Description
701	A-6713-332-A	o MOUNTED CIRCUIT BOARD, FL-55 (J,UC)
702	A-6713-349-A	o MOUNTED CIRCUIT BOARD, FL-55P (EK)
703	A-6736-078-A	o HEAD ASSY, A/T (NOT INCLUDING FL-55/55P BOARD)
704	X-3722-319-1	s ROLLER ASSY
705	X-3722-338-3	o PLATE (UPPER) ASSY, A/T
706	X-3722-339-3	o PLATE (LOWER) ASSY, A/T
707	X-3722-340-4	s IR-3 ASSY
708	2-123-868-02	s SCREW (2X6)
709	3-534-236-00	s SPRING, COMPRESSION
710	3-557-565-01	s WASHER, 1.4 DIA, SMALL
711	3-669-316-00	s SPRING, COMPRESSION
712	3-695-567-01	s WASHER, M SLIDER
713	3-698-829-01	s NUT (M2)
714	3-703-502-31	s SCREW
715	3-722-400-02	s FLANGE (C), UPPER
716	3-722-401-02	s FLANGE (A), LOWER
717	3-722-412-15	o DAMPER, A/T
718	3-729-011-01	s SPRING, COMPRESSION
719	3-729-012-21	s SCREW (M2X4)
720	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
721	3-729-027-11	o CASE, SHIELD, A/T
722	3-729-066-01	o NUT, IR-3
723	3-729-067-02	o PLATE, INDICATION, IR-3
724	3-742-002-01	o DAMPER, W & F
725	8-825-749-02	s HEAD, AU PPS244-2103

CASSETTE-UP COMPARTMENT

CASSETTE-UP COMPARTMENT

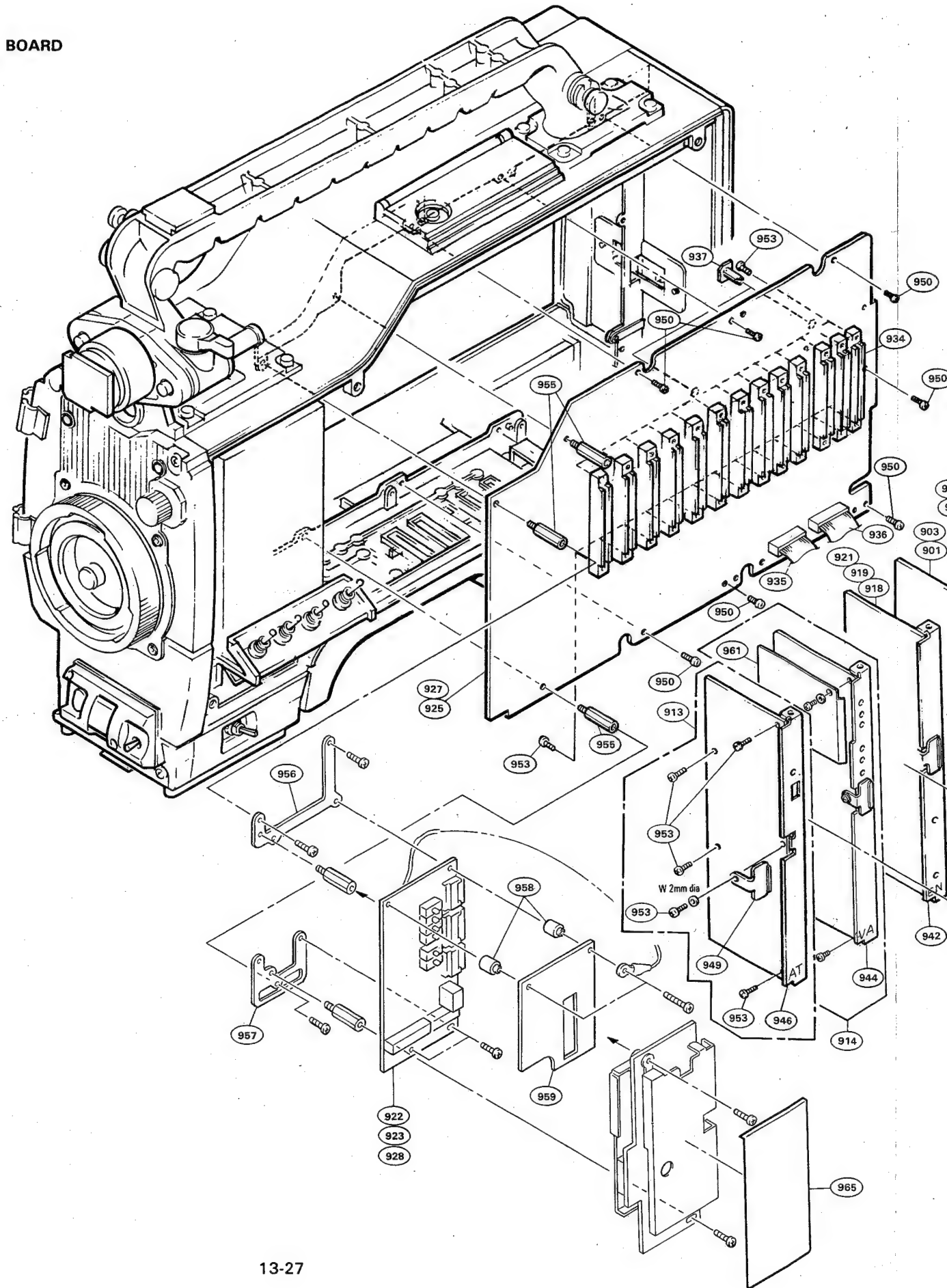
No.	Part No.	SP Description
801	A-6751-381-F	s CASSETTE COMPARTMENT ASSY
802	X-3722-358-3	s STOPPER ASSY
803	X-3722-361-2	o FITTING ASSY, DAMPER
804	X-3722-381-4	s ARM ASSY, LOCK
805	X-3722-412-1	o LEVER ASSY, RELEASE
806	3-315-384-11	s WASHER, STOPPER
807	3-321-813-01	s WASHER, COTTER POLYETHYLENE
808	3-674-402-00	s SPRING, TENSION
809	3-681-528-00	o DAMPER
810	3-701-436-21	s WASHER, POLYETHYLENE
811	3-723-016-01	o LEVER (RIGHT), LID OPEN
812	3-723-017-01	o LEVER (LEFT), LID OPEN
813	3-723-042-01	o SHAFT, LINK
814	3-723-043-01	o SHAFT, CASSETTE HOLDER
815	3-723-044-01	o RETAINER, BEARING
816	3-723-044-11	o RETAINER, BEARING
817	3-723-045-02	o ROLLER, HOLDER SLIDE
818	3-723-052-01	s SPRING (A), TORSION
819	3-723-053-01	o SPRING (A), TENSION
820	3-723-054-01	o SPRING (L), CASSETTE RETAINER
821	3-723-055-01	o SPRING (R), CASSETTE RETAINER
822	3-723-067-03	o RETAINER (LEFT), CASSETTE
823	3-723-068-01	o RETAINER (RIGHT), CASSETTE
824	3-723-086-01	o GEAR, DAMPER DRIVING
825	3-723-087-01	s SHAFT (A), BLIND PLATE
826	3-723-088-02	s GUIDE (RIGHT), CASSETTE
827	3-723-089-02	s GUIDE (LEFT), CASSETTE
828	3-723-090-03	s PLATE (A), BLIND
829	3-725-298-01	o PLATE, INDICATION, BLIND
830	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
831	3-695-515-02	o SPRING

CASSETTE-UP COMPARTMENT

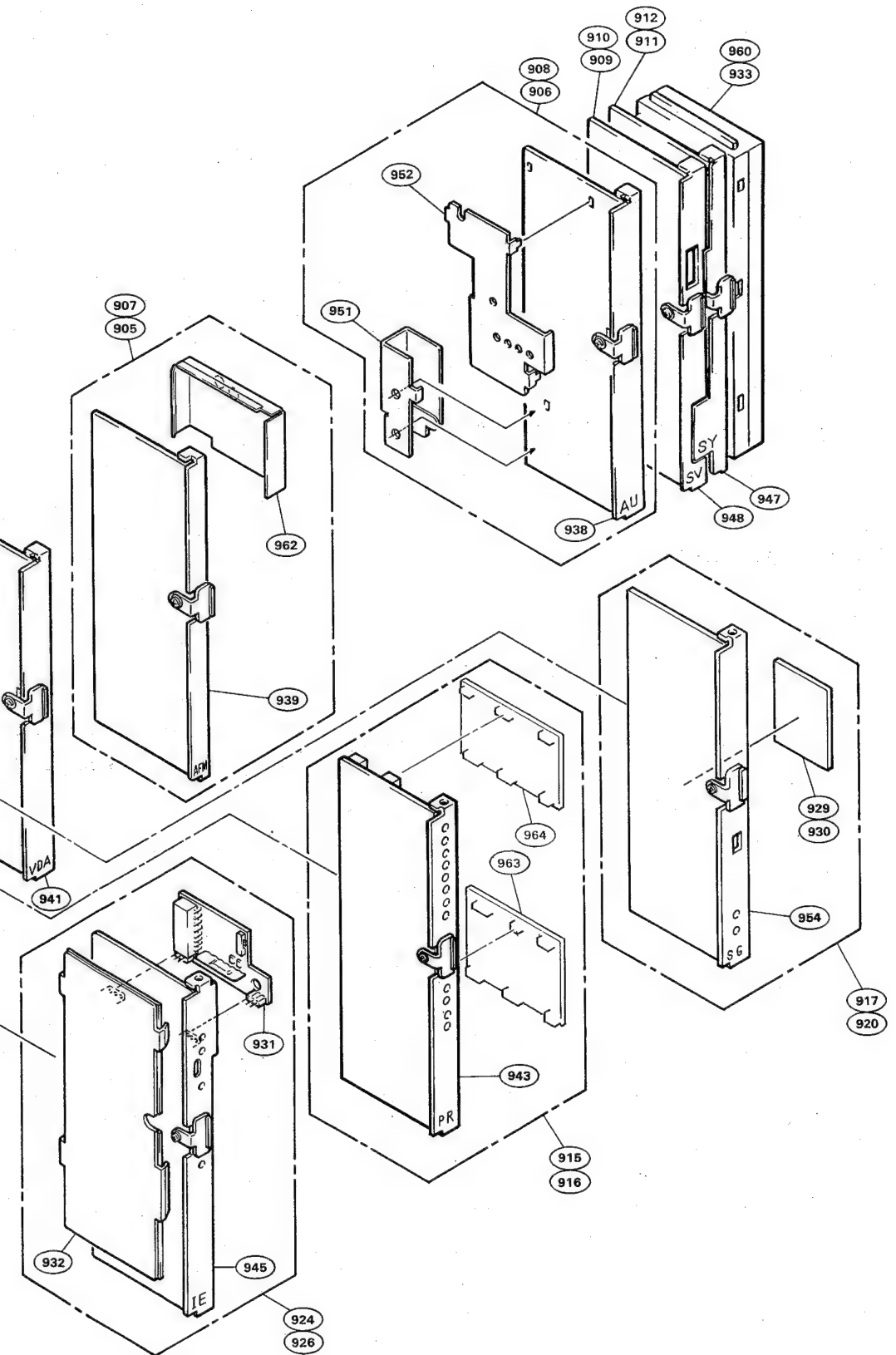


BVW-300A(J, UC)
 BVW-300AP(EK)
 (BKW-301/301P)

PRINT CIRCUIT BOARD



13-27



13-28

BVW-300A(J, UC)
BVW-300AP(EK)
(BKW-301/301P)

PRINT CIRCUIT BOARD

PRINT CIRCUIT BOARD

No.	Part No.	SP Description
901	A-6711-932-B	o MOUNTED CIRCUIT BOARD, VP-24 (J, UC)
902	A-6711-933-C	o MOUNTED CIRCUIT BOARD, VDA-11(J, UC)
903	A-6711-992-A	o MOUNTED CIRCUIT BOARD, VP-24P (EK)
904	A-6711-993-B	o MOUNTED CIRCUIT BOARD, VDA-11P (EK)
905	A-6713-319-B	o MOUNTED CIRCUIT BOARD, AFM-6 (J, UC)
906	A-6713-320-A	o MOUNTED CIRCUIT BOARD, AU-97 (J, UC)
907	A-6713-350-A	o MOUNTED CIRCUIT BOARD, AFM-6P (EK)
908	A-6713-351-A	o MOUNTED CIRCUIT BOARD, AU-97P (EK)
909	A-6715-436-A	o MOUNTED CIRCUIT BOARD, SV-97A(J, UC)
910	A-6715-438-A	o MOUNTED CIRCUIT BOARD, SV-97AP (EK)
911	A-6717-576-A	o MOUNTED CIRCUIT BOARD, SY-117C (J, UC)
912	A-6717-577-A	o MOUNTED CIRCUIT BOARD, SY-117CP(EK)
913	A-7513-944-A	o MOUNTED CIRCUIT BOARD, AT-49A Serial No. UP TO 12999 (UC) UP TO 31999 (J) UP TO 43999 (EK)
	A-8274-904-A	o MOUNTED CIRCUIT BOARD, AT-49C Serial No. 13001 AND HIGHER (UC) 32001 AND HIGHER (J) 44001 AND HIGHER (EK)
914	A-7513-945-A	o MOUNTED CIRCUIT BOARD, VA-83 Serial No. UP TO 12999 (UC) UP TO 31999 (J) UP TO 43999 (EK)
	A-8274-901-A	o MOUNTED CIRCUIT BOARD, VA-168 Serial No. 13001 AND HIGHER (UC) 32001 AND HIGHER (J) 44001 AND HIGHER (EK)
915	A-8271-330-A	o MOUNTED CIRCUIT BOARD, PR-176U (UC)
916	A-8271-333-A	o MOUNTED CIRCUIT BOARD, PR-176(J, EK)
917	A-7513-948-A	o MOUNTED CIRCUIT BOARD, SG-152(J, UC)
918	A-7513-949-A	o MOUNTED CIRCUIT BOARD, EN-79U (UC)
919	A-7513-950-A	o MOUNTED CIRCUIT BOARD, EN-79 (J)
920	A-7513-960-A	o MOUNTED CIRCUIT BOARD, SG-152P (EK)
921	A-7513-961-A	o MOUNTED CIRCUIT BOARD, EN-79P (EK)
922	A-7515-149-A	o MOUNTED CIRCUIT BOARD, IF-298 (UC) Serial No. UP TO 12999
	A-8271-331-A	o MOUNTED CIRCUIT BOARD, IF-298A (UC) Serial No. 13001 AND HIGHER
923	A-7515-310-A	o MOUNTED CIRCUIT BOARD, IF-298AP (EK) Serial No. UP TO 43999
	A-7515-330-B	o MOUNTED CIRCUIT BOARD, IF-298AP (EK) Serial No. 44001 AND HIGHER
924	A-7515-311-A	o MOUNTED CIRCUIT BOARD, IE-30A(J, UC)
925	A-7515-312-A	o MOUNTED CIRCUIT BOARD, MB-317A (J, UC)
926	A-7515-313-A	o MOUNTED CIRCUIT BOARD, IE-30AP (EK)
927	A-7515-314-A	o MOUNTED CIRCUIT BOARD, MB-317AP(EK)
928	A-7515-324-A	o MOUNTED CIRCUIT BOARD, IF-298 (J) Serial No. UP TO 31999
	A-8271-334-A	o MOUNTED CIRCUIT BOARD, IF-298AP (J) Serial No. 32001 AND HIGHER
929	A-7520-420-A	o MOUNTED CIRCUIT BOARD, SG-157(J, UC)
930	A-7520-489-A	o MOUNTED CIRCUIT BOARD, SG-157P (EK)
931	A-7520-521-A	o MOUNTED CIRCUIT BOARD, IE-31
932	X-3722-411-5	o PLATE (CARD) ASSY, SHIELD
933	Δ1-464-995-21	s CONVERTER, DC-DC (CD-89B) (J, UC)
934	1-566-962-11	o CONNECTOR, BOARD TO BOARD 50P
935	1-625-891-11	s PRINTED CIRCUIT BOARD, FL-45
936	1-625-892-11	s PRINTED CIRCUIT BOARD, FL-46
937	3-722-391-01	o HOLDER, GP2S09
938	3-724-704-01	o PLATE (AU-97), ORNAMENTAL
939	3-724-705-01	o PLATE (AFM-6), ORNAMENTAL
940	3-724-706-01	o PLATE (VP-24), ORNAMENTAL
941	3-724-707-01	o PLATE (VDA-11), ORNAMENTAL
942	3-724-709-01	o PLATE (EN-62), ORNAMENTAL
943	3-724-710-01	o PLATE (PR-102), ORNAMENTAL
944	3-724-711-02	o PLATE (VA-62), ORNAMENTAL
945	3-724-712-02	o PLATE (IE-20), ORNAMENTAL
946	3-724-713-01	o PLATE (AT-49), ORNAMENTAL
947	3-724-714-01	o PLATE (SY-117), ORNAMENTAL
948	3-724-715-02	o PLATE (SV-97), ORNAMENTAL
949	3-724-753-01	o RING, PRE
950	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
951	3-729-031-01	o CASE, (AU-1) SHIELD
952	3-729-032-03	o CASE, (AU-2) SHIELD
953	3-729-061-01	s SCREW (M2X4.5), (TYPE1)
954	3-734-321-01	o PLATE (SG-152), ORNAMENTAL
955	3-742-031-01	o SUPPORT (IF)
956	3-742-032-01	o BRACKET (A), IF
957	3-742-033-01	o BRACKET (B), IF
958	3-742-072-01	o SPACER (IF)
959	3-742-073-01	o COVER, IF
960	Δ1-464-995-41	s CONVERTER, DC-DC (CD-89) (EK)
961	3-172-056-02	o PARTITION
962	X-3166-340-2	s PLATE(AFM), SHIELD
963	1-810-067-11	s BP-020
964	1-810-066-11	s BP-021
965	3-188-787-01	o LABEL

BVW-300A(J, UC)
BVW-300AP(EK)
(BKW-301/301P)

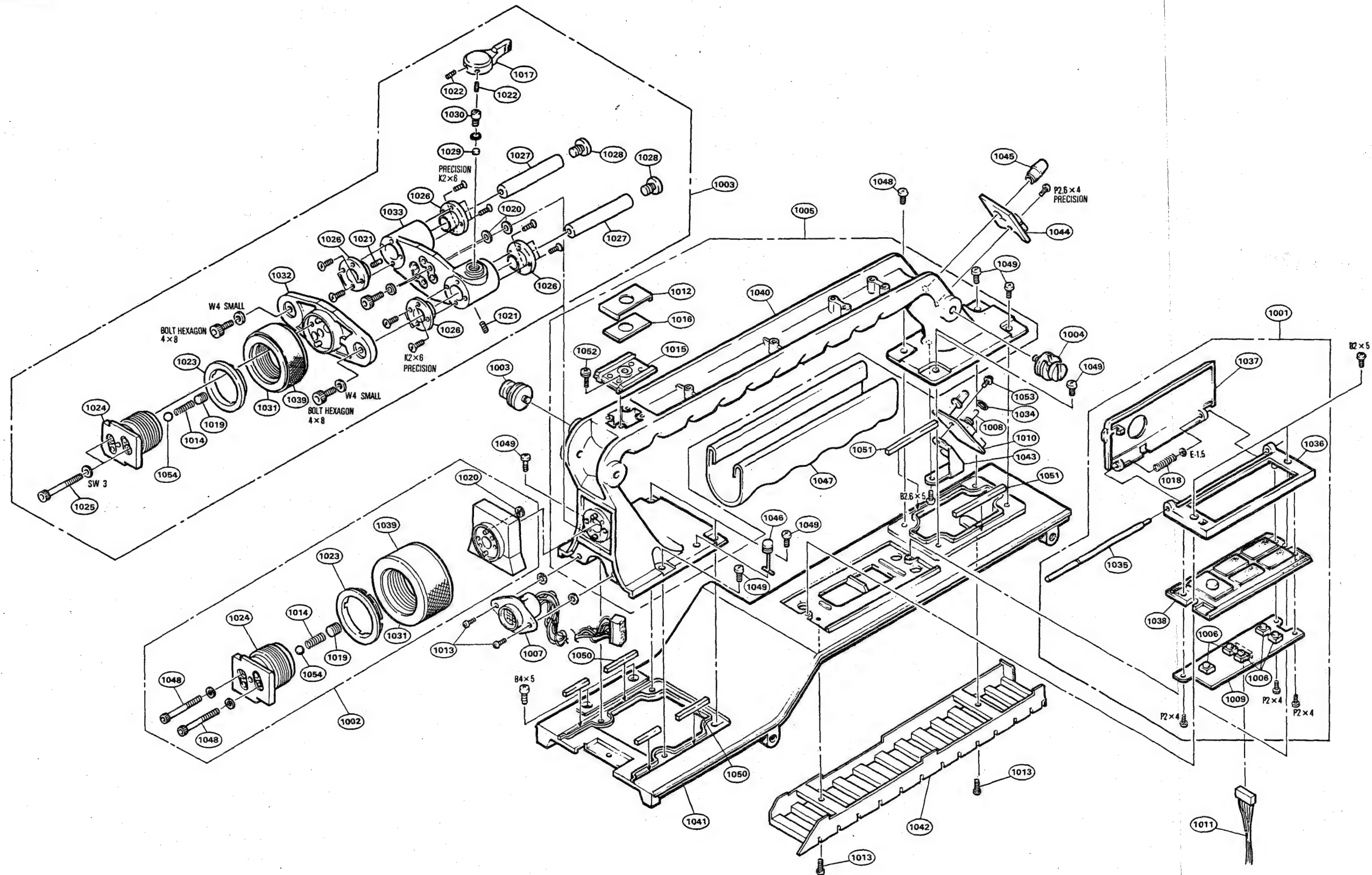
TOP FRAME

TOP FRAME

No.	Part No.	SP Description
1001	A-6731-155-A	s KEY BOARD ASSY
1002	A-7612-319-B	o SPACER ASSY, VF SLIDE (J)
1003	A-7612-331-F	o SLIDE ASSY, VF (UC, EK)
1004	X-3672-208-2	o SUSPENSION ASSY (B)
1005	X-3722-370-7	o HANDLE ASSY
1006	1-554-371-51	s SWITCH, TACT
1007	1-565-051-11	o CONNECTOR, ROUND (WITH C) 20P "VF"
1008	1-570-608-11	s SWITCH, TOGGLE "BACK TALLY"
1009	1-625-549-11	o PRINTED CIRCUIT BOARD, KY-124
1010	1-625-555-13	o PRINTED CIRCUIT BOARD, SW-291
1011	1-940-628-11	o HARNESS, SUB (KY)
1012	2-277-468-01	o PLATE, ORNAMENTAL, CAMERA SHOE
1013	7-621-775-20	s SCREW +B 2.6X5
1014	3-641-622-00	s SPRING, COMPRESSION
1015	3-657-700-00	s BRACKET, ACCESSORY
1016	3-672-213-00	o SHEET, ADHESIVE
1017	3-673-046-00	s LEVER, LOCK
1018	3-673-281-00	o SPRING, COMPRESSION
1019	3-682-760-01	o SCREW (M7-0.75), ADJUSTMENT
1020	3-685-166-01	o WASHER, SCREW CLAMP
1021	3-701-506-01	s SET SCREW, DOUBLE POINT 3X4
1022	3-701-508-00	s SET SCREW, DOUBLE POINT 3X6
1023	3-710-018-01	s COLLAR, SLIDE
1024	3-710-039-03	s SHOE, SLIDE
1025	3-711-765-01	s BOLT (M3), HEXAGON SOCKET
1026	3-711-790-01	o SPACER (A)
1027	3-711-791-01	o ARM
1028	3-711-792-01	o SCREW
1029	3-711-793-01	o CUSHION (STOPPER)
1030	3-711-794-01	o PIN, STOPPER
1031	3-711-795-01	o RING (B), LOCK
1032	3-711-796-03	o TABLE, FIXED, VF SHOE
1033	3-711-797-07	o TABLE, FIXED, VF SLIDE
1034	3-717-825-01	o RING, O
1035	3-717-854-01	o SHAFT, KEY BOARD COVER
1036	3-718-042-21	o FRAME, KEY BOARD
1037	3-718-043-23	o COVER, KEY BOARD
1038	3-718-044-01	s COVER, KEY BOARD RUBBER
1039	3-720-919-01	o RUBBER, LOCK RING
1040	3-722-467-08	o HANDLE
1041	3-722-469-08	o FRAME, TOP
1042	3-724-736-01	o GUIDE (UPPER), PC BOARD
1043	3-724-762-01	s HOLDER
1044	3-724-763-01	o COVER, BT
1045	3-724-764-01	s HOLDER, LED
1046	3-725-234-01	s RUBBER (DIA. 7), DROP PROTECTION
1047	3-725-260-03	s GRIP, RUBBER
1048	3-725-266-01	s BOLT (M3X40), HEXAGON SOCKET
1049	3-725-295-01	s SCREW, (+) (B3)
1050	3-725-296-11	s FILTER (HANDLE)
1051	3-725-296-21	s FILTER (HANDLE)
1052	3-729-012-01	s SCREW (M2X5)
1053	3-729-013-21	s SCREW (M1.4X2.5), WASHERHEAD(+P)
1054	7-671-115-01	s BALL, STEEL

BVW-300A(J, UC)
BVW-300AP(EK)
(BKW-301/301P)

TOP FRAME

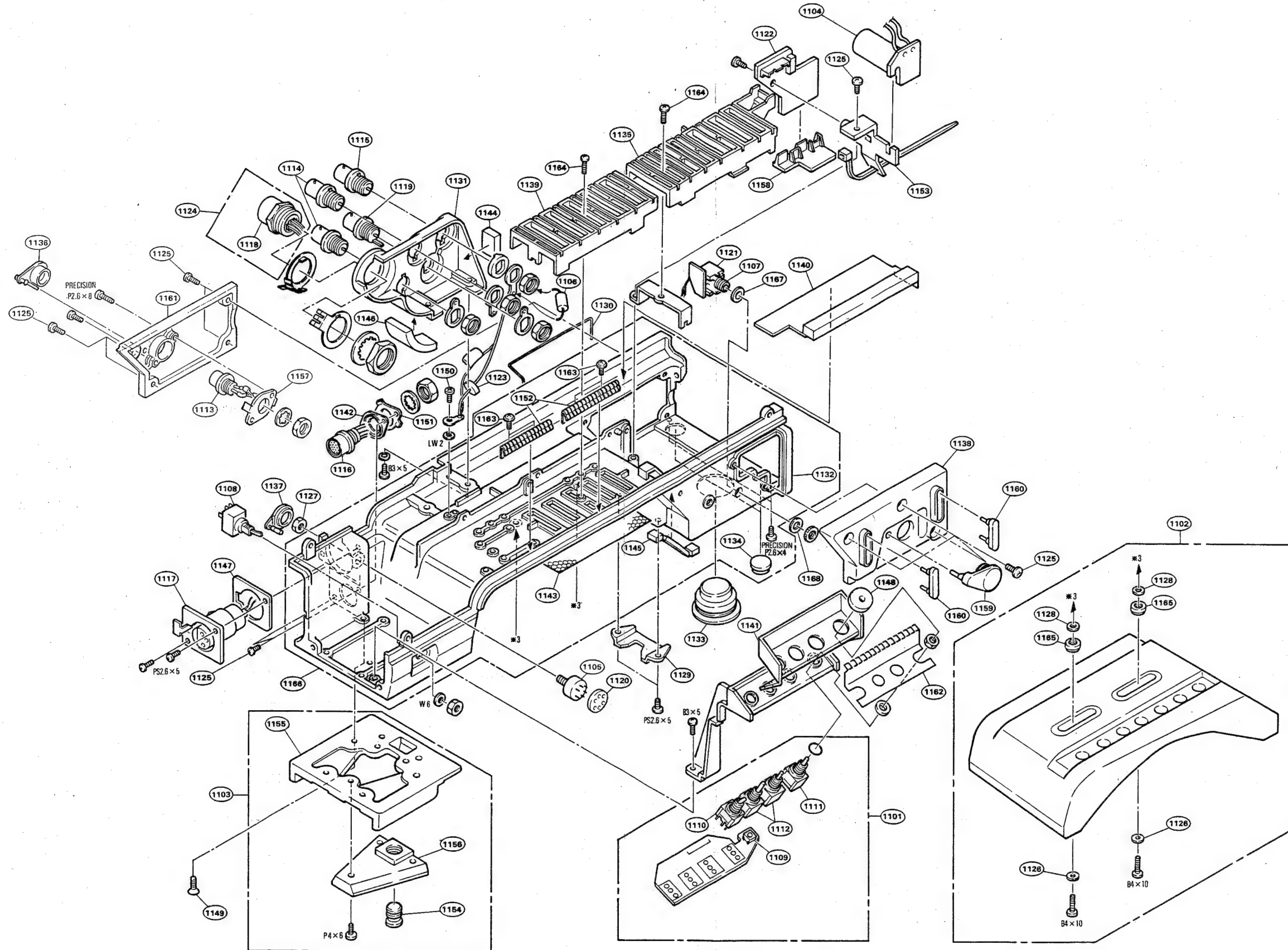


BVW-300A (J,UC)
BVW-300AP (EK)

13-31

13-32

BOTTOM FRAME



BOTTOM FRAME

No.	Part No.	SP Description
1101	A-7520-307-A	o MOUNTED CIRCUIT BOARD, SW-220
1102	A-7612-315-A	s PAD ASSY, SHOULDER
1103	A-7612-385-A	s SHOE (B) ASSY, V
1104	1-124-440-11	s CAP, ELECT 3300MF
1105	1-223-165-00	s RES, ADJ, WIREWOUND 10K "PEDESTAL"
1106	1-249-404-00	s RES, CARBON (SMALL) 82
1107	1-507-980-21	s JACK "EARPHONE"
1108	1-553-448-00	s SWITCH, TOGGLE "POWER"
1109	1-553-856-00	s SWITCH, KEYBOARD "CTDM"
1110	1-554-355-00	s SWITCH, TOGGLE "VTR SAVE/ST.BY"
1111	1-554-356-00	s SWITCH, TOGGLE "WHITE BAL"
1112	1-554-400-00	s SWITCH, TOGGLE "GAIN" "OUTPUT/DCC"
1113	1-561-233-21	s CONNECTOR, FEMALE 6P "REMOTE"
1114	1-561-781-11	s CONNECTOR, BNC "TC IN" "TC OUT"
1115	1-561-781-21	s CONNECTOR, BNC "GENLOCK VIDEO IN"
1116	1-562-221-21	s CONNECTOR, 12P MALE "LENS"
1117	1-563-029-21	s CONNECTOR, 3P FEMALE "MIC IN"
1118	1-563-971-11	s CONNECTOR, 20P "PB ADAPTOR"
1119	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT"
1120	1-625-554-13	o PRINTED CIRCUIT BOARD, VR-77
1121	1-627-593-11	o PRINTED CIRCUIT BOARD, HP-43
1122	1-634-967-11	o PRINTED CIRCUIT BOARD, CN-400
1123	1-806-504-11	s VARISTOR ERZ-C05DK820
1124	1-940-619-11	o HARNESS, SUB (ADP)
1125	3-166-603-01	s SCREW (2.6), +B
1126	3-646-184-00	s SPACER
1127	3-664-519-00	o NUT (M4)
1128	3-687-116-01	o WASHER (4), STOPPER
1129	3-711-703-01	o STOPPER
1130	3-711-715-01	o RUBBER, SHIELD
1131	3-722-462-03	o FRAME, BNC
1132	3-722-471-06	o FRAME, BOTTOM
1133	3-723-096-01	o OVER, BREAKER
1134	3-723-097-01	o FOOT, RUBBER
1135	3-724-720-01	o GUIDE (LOWER REAR), PC BOARD
1136	3-724-730-02	s RUBBER (EA), DROP PROTECTION
1137	3-724-731-02	s RUBBER (PE), DROP PROTECTION
1138	3-724-734-04	o PANEL, MAIN SWITCH ORNAMENTAL
1139	3-724-735-01	o GUIDE (LOWER FRONT), PC BOARD
1140	3-725-226-01	o PARTITION (L)
1141	3-725-243-01	s RUBBER (CAM), DROP PROTECTION
1142	3-725-297-01	o SPACER (LENS)
1143	3-729-002-01	s FILTER, VENTILATION
1144	3-729-003-01	o FILTER (LEFT SIDE PLATE 2)
1145	3-729-004-01	s FILTER (BOTTOM 2)
1146	3-729-005-01	s FILTER (BNC)
1147	3-729-006-01	s SHEET (AUDIO), DROP PROTECTION
1148	3-729-007-01	o PLATE, ORNAMENTAL, TOGGLE SW
1149	3-729-072-01	s SCREW, +K (4X8)
1150	3-729-076-11	s SCREW (+B) (2X4)
1151	3-729-092-01	o BRACKET (A)
1152	3-729-095-01	o SHIELD, FINGER Serial No. UP TO 11657 (UC) UP TO 30885 (J) UP TO 42003 (EK)
3-178-382-01	o SHIELD (BOTTOM), SHIELD Serial No. 11658 AND HIGHER (UC) 30886 AND HIGHER (J) 42004 AND HIGHER (EK)	
1153	3-734-732-01	o HOLDER, CONDENSER
1154	3-742-011-01	s SCREW, 1/4, 3/8 CONVERSION
1155	3-742-012-01	s SHOE (B), CAMERA
1156	3-742-015-01	o WEDGE (B), MOUNTING
1157	3-742-016-01	o BRACKET, REMOTE
1158	3-742-029-01	o GUIDE, PC BOARD
1159	3-742-034-01	s RUBBER (EJ), DROP PROTECTION
1160	3-742-035-01	o STOPPER, ORNAMENTAL PANEL
1161	3-742-050-01	o BRACKET, REMOTE
1162	X-3166-761-3	o FINGER (SW) ASSY, SHIELD
1163	3-729-013-01	o SCREW (M1.4X1.6) WASHER HEAD (+P) Serial No. 11658 AND HIGHER (UC) 30886 AND HIGHER (J) 42004 AND HIGHER (EK)
1164	7-621-775-20	s SCREW +B 2.6X5
1165	3-725-261-01	o SPACER, SHOULDER PAD
1166	A-8267-202-B	o FRAME SUB ASSY, BOTTOM
1167	3-182-155-01	s WASHER, INSULATING
1168	3-182-156-01	s BUSHING, INSULATING

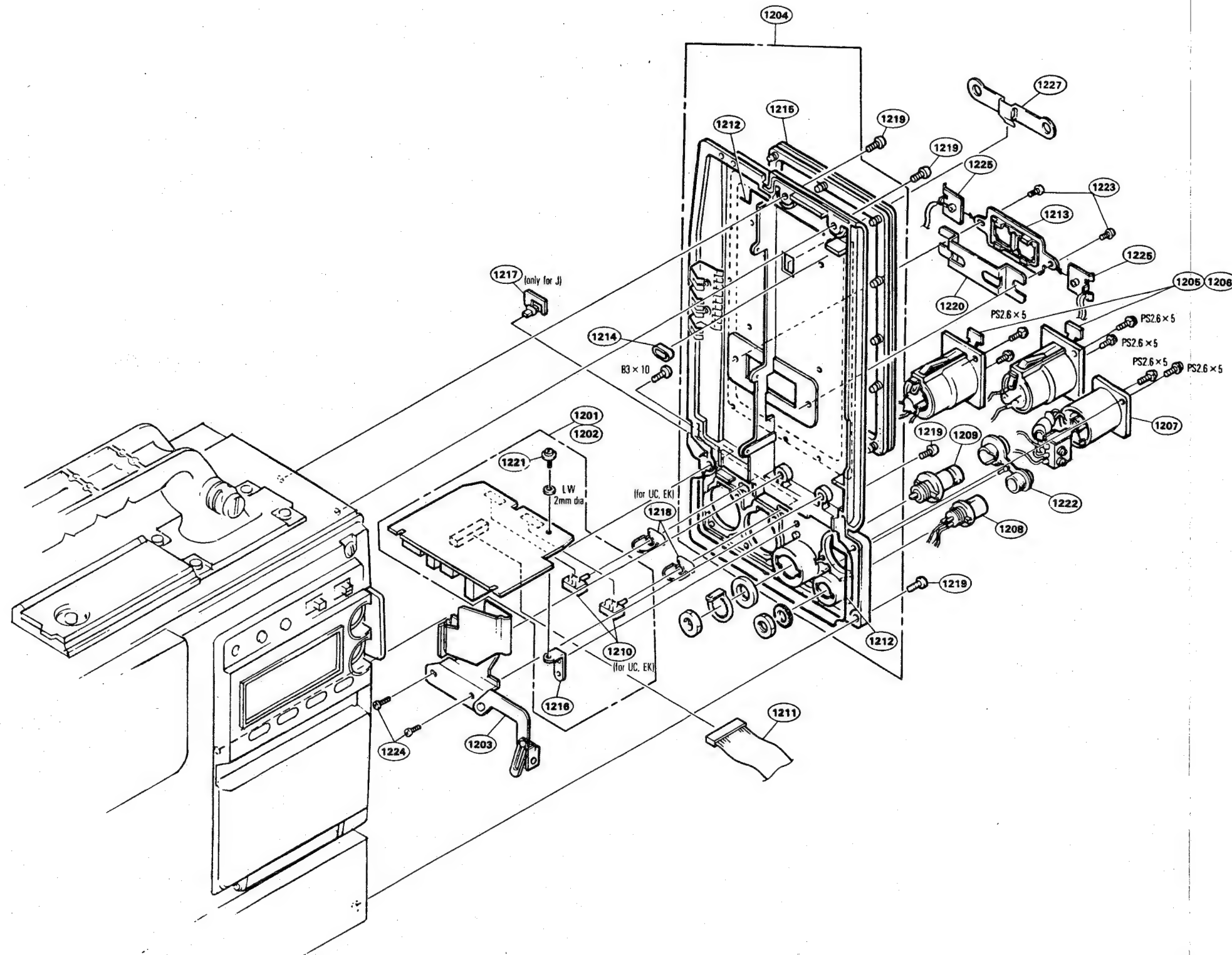
REAR FRAME

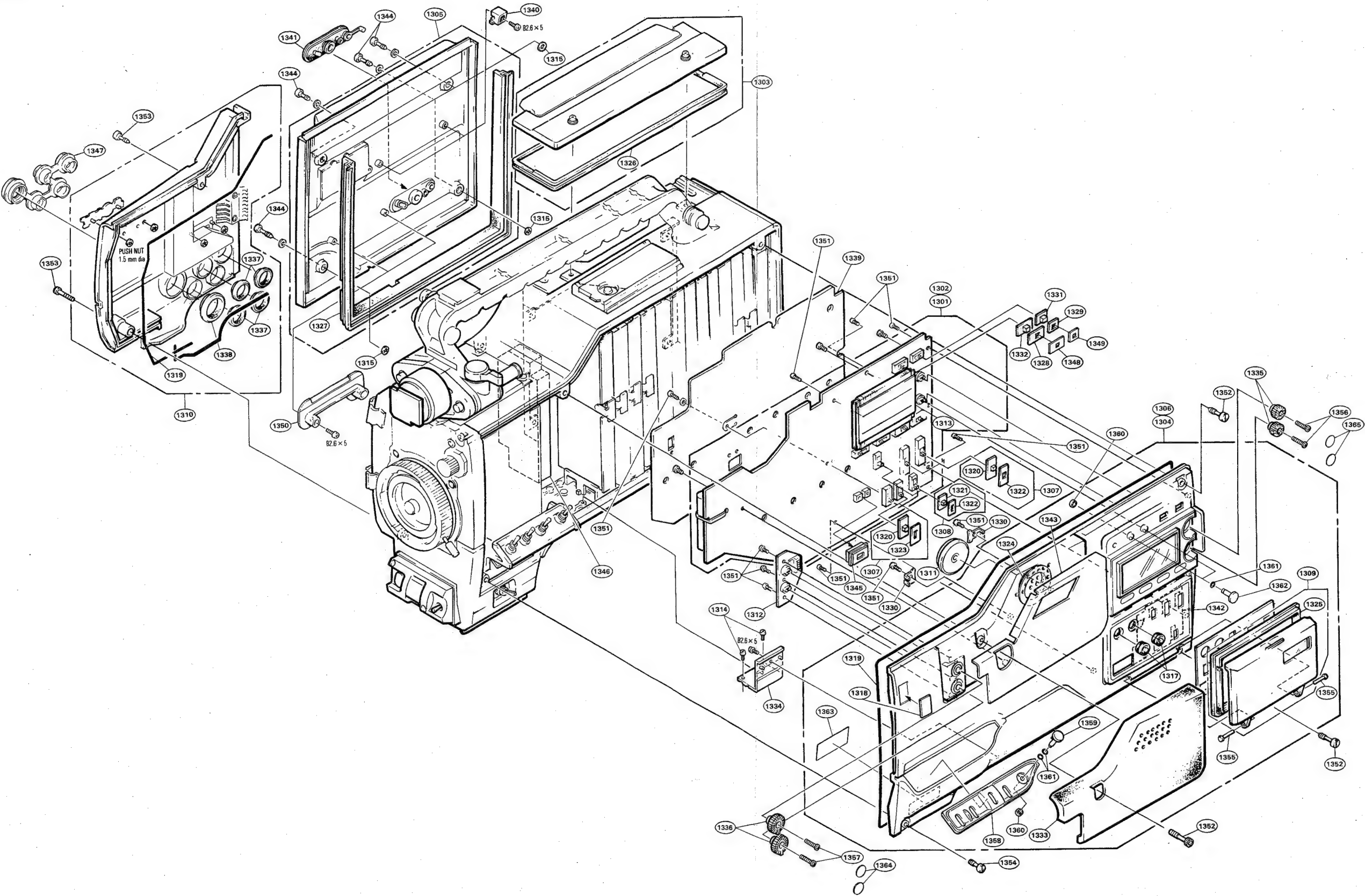
REAR FRAME

No.	Part No.	SP Description
1201	△A-6723-360-A	o MOUNTED CIRCUIT BOARD, PS-162J (J) Serial No. UP TO 30910 (J)
	△A-8271-735-A	o MOUNTED CIRCUIT BOARD, PS-162B (J) Serial No. 30911 AND HIGHER (J)
1202	△A-6723-368-A	o MOUNTED CIRCUIT BOARD, PS-162 (UC,EK) Serial No. UP TO 11712 (UC) UP TO 42095 (EK)
	△A-8271-736-A	o MOUNTED CIRCUIT BOARD, PS-162B(UC,EK) Serial No. 11713 AND HIGHER (UC) 42096 AND HIGHER (EK)
1203	X-3722-373-1	o HINGE (L) ASSY, SIDE PLATE
1204	X-3722-374-6	o FRAME SUB ASSY, REAR
1205	1-563-029-21	s CONNECTOR, 3P MALE (UC,EK) "AUDIO IN CH1/CH2"
1206	1-563-030-21	o CONNECTOR, 3P FEMALE (J) "AUDIO IN CH1/CH2"
1207	1-564-603-11	s CONNECTOR (WITH DC SW), 4P "DC IN"
1208	1-565-072-11	s CONNECTOR, 4P "DC IN"
1209	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT"
1210	1-570-610-11	s SWITCH, TOGGLE (UC,EK) "PHANTOM"
1211	1-625-895-11	s PRINTED CIRCUIT BOARD, FL-57 Serial No. UP TO 11712 (UC) UP TO 30910 (J) UP TO 42095 (EK)
	1-625-895-21	s PRINTED CIRCUIT BOARD, FL-57 Serial No. 11713 AND HIGHER (UC) 30911 AND HIGHER (J) 42096 AND HIGHER (EK)
1212	3-711-715-01	o RUBBER, SHIELD
1213	3-718-028-01	o HOLDER, TERMINAL
1214	3-722-484-01	o SPACER, SW
1215	3-724-723-01	s RUBBER (BATT), DROP PROTECTION
1216	3-724-752-01	o HOLDER (PS), PC BOARD
1217	3-725-227-01	o BUSHING (P48) (J)
1218	3-725-239-01	s RUBBER (P48), DROP PROTECTION
1219	3-725-295-11	s SCREW, (+) (B3)
1220	3-729-009-04	o INSULATOR (BATT)
1221	3-729-021-01	s SCREW (M2X5)
1222	3-729-035-01	s COVER, REAR CONNECTOR
1223	3-729-076-01	s SCREW (+B) (2X3)
1224	3-729-076-11	s SCREW (+B) (2X4)
1225	3-717-996-04	s TERMINAL
1227	3-178-798-01	o CASE, CONNECTOR Serial No. 13136 AND HIGHER (UC) 32011 AND HIGHER (J) 44161 AND HIGHER (EK)

REAR FRAME

REAR FRAME





SIDE PLATE

No.	Part No.	SP Description
1301	A-6713-327-A	o MOUNTED CIRCUIT BOARD, TC-48AP (EK) Serial No. UP TO 42095 (EK)
	A-8271-734-A	o MOUNTED CIRCUIT BOARD, TC-48BP (EK) Serial No. 42096 AND HIGHER
1302	A-6713-368-A	o MOUNTED CIRCUIT BOARD, TC-48A(J,UC) Serial No. UP TO 11712 (UC) UP TO 30910 (J)
	A-8271-733-A	o MOUNTED CIRCUIT BOARD, TC-48B(J,UC) Serial No. 11713 AND HIGHER (UC) 30911 AND HIGHER (J)
1303	X-3722-376-6	o PANEL ASSY, TOP
1304	X-3167-430-1	o PLATE SUB ASSY, SIDE, RIGHT (J,UC)
1305	X-3722-399-6	o LID SUB ASSY
1306	X-3722-415-6	o PLATE SUB ASSY (PAL), SIDE (EK)
1307	X-3722-416-1	s KNOB (A) (ORANGE) ASSY, SW
1308	X-3722-417-1	s KNOB (C) (ORANGE) ASSY, SW
1309	X-3722-440-2	o DOOR ASSY, ORNAMENTAL
1310	X-3734-704-4	o PLATE ASSY, SIDE, LEFT
1311	1-503-293-00	s SPEAKER
1312	1-625-553-13	o PRINTED CIRCUIT BOARD, VR-70
1313	1-808-502-11	s LCD-MODULE
1314	3-166-603-01	s SCREW (2.6), +B
1315	3-669-596-00	s WASHER (2.3), STOPPER
1316	3-676-088-00	o SHAFT, KNOB
1317	3-676-244-00	s COVER, SWITCH
1318	3-678-607-02	o LABEL, FILTER
1319	3-711-715-01	o RUBBER, SHIELD
1320	3-717-900-01	s KNOB (A) (TC), SW
1321	3-717-901-01	s KNOB (C) (TC), SW
1322	3-717-902-21	o PLATE, ORNAMENTAL
1323	3-717-902-31	o PLATE, ORNAMENTAL
1324	3-724-716-02	s SHEET, DROP PROTECTION
1325	3-724-718-03	s RUBBER (DOOR), DROP PROTECTION
1326	3-724-721-02	s RUBBER (TOP), DROP PROTECTION
1327	3-724-722-02	s RUBBER (CA), DROP PROTECTION
1328	3-724-725-02	s RUBBER (SLIDE), DROP PROTECTION
1329	3-724-725-12	s RUBBER (SLIDE), DROP PROTECTION
1330	3-724-726-01	o HOLDER, SPEAKER
1331	3-724-727-01	s KNOB (LI), SW
1332	3-724-728-01	s KNOB (DL), SW
1333	3-724-733-01	o PAD, SIDE
1334	3-724-749-02	o HINGE (R), SIDE PLATE
1335	3-171-996-03	s KNOB (R), VR
1336	3-171-997-03	s KNOB (F), VR
1337	3-724-760-01	s RUBBER (BNC), DROP PROTECTION
1338	3-724-761-01	s RUBBER (PB), DROP PROTECTION
1339	3-725-225-01	o INSULATOR (TC)
1340	3-725-286-01	o STOPPER, CASSETTE
1341	3-725-287-01	s RUBBER, DROP PROTECTION
1342	3-725-290-03	s RUBBER (SW), DROP PROTECTION
1343	3-725-293-03	s TAPE (3), ADHESIVE, SIDE PAD
1344	3-725-295-11	s SCREW, (+) (B3)
1345	3-729-010-01	s RUBBER (VITC), DROP PROTECTION
1346	3-729-023-01	o FILTER (MAIN)
1347	3-729-036-01	o COVER, SIDE CONNECTOR
1348	3-729-044-01	s SHEET, SLIDE
1349	3-729-044-11	s SHEET, SLIDE
1350	3-729-052-03	o BRACKET, TAPE
1351	3-729-076-01	s SCREW (+B) (2X3)
1352	3-729-091-01	s SCREW (M4X17.5)
1353	3-729-091-21	s SCREW (M4X22.5)
1354	3-729-091-31	s SCREW (M4X10)
1355	3-743-800-01	o SHAFT, DOOR
1356	3-172-754-21	s SCREW, PRECISION +P1.7X5
1357	3-172-754-21	s SCREW, PRECISION +P1.7X5
1358	3-724-748-03	o PLATE, ORNAMENTAL, CAMERA SW
1359	3-724-747-02	o KNOB, CTDM
1360	3-724-757-02	s RETAINER, SW, PUSH
1361	3-724-758-02	s RUBBER (PUSH), DROP PROTECTION
1362	3-724-759-03	s PUSH (SW)
1363	3-176-374-01	o LABEL, SWITCH
1364	3-178-098-01	s SHEET (VR), INSULATING Serial No. 11693 AND HIGHER (UC) 30886 AND HIGHER (J) 42051 AND HIGHER (EK)
1365	3-178-098-11	s SHEET (TR), INSULATING Serial No. 11693 AND HIGHER (UC) 30886 AND HIGHER (J) 42051 AND HIGHER (EK)

VIEWFINDER

----- (Serial No. UP TO 12999(UC))
VIEWFINDER (31999(J)
----- 43999(EK)

No. Part No. SP Description

1401	△A-7403-132-A	o VF COMPLETE ASSY (J,UC)	1451	3-722-485-01	o ROLLER, SLIDE
1402	△A-7403-133-A	o VF COMPLETE ASSY (EK)	1452	3-722-486-01	s KNOB
1403	△A-7513-642-B	o MOUNTED CIRCUIT BOARD, VF-32	1453	3-722-488-05	o BRACKET, PC BOARD
1404	A-7612-320-B	o GUIDE ASSY, VF SLIDE	1454	3-722-494-01	o BRACKET, VR SW
1405	A-7612-389-B	s TUBE SUB ASSY, VF	1455	3-723-002-14	o VF (MAIN)
1406	A-7612-390-D	o HOLDER ASSY, MICROPHONE	1456	3-723-069-02	o PROTECTOR, MC
1407	X-3710-050-5	o VF (MAIN) BLOCK ASSY	1457	3-723-073-01	o CUSHION, MIRROR
1408	X-3722-366-8	o TUBE ASSY, VF ROTARY GUIDE	1458	3-723-079-01	s EYE CUP
1409	X-3722-368-5	o LID ASSY, VF	1459	3-724-744-03	o WASHER
1410	X-3722-426-1	o BRACKET ASSY, SW	1460	3-724-745-01	o SHEET (C), INSULATING
1411	X-3722-436-1	o LENS ASSY	1461	3-724-746-01	o SHEET (B), INSULATING
1412	X-3722-437-2	o BRACKET ASSY (C), VR SW	1462	3-725-220-02	o TUBE (A), CRT
1413	1-238-290-11	s RES, VAR, CARBON 1k "CONTRAST"	1463	3-725-221-04	o TUBE (B), CRT
1414	1-238-293-11	s RES, VAR, CARBON 10k "BRIGHT"	1464	3-725-257-01	o BOSS
1415	1-238-296-11	s RES, VAR, CARBON 10k "PEAKING" "AUDIO LEVEL CH-1"	1465	3-725-258-03	o STOPPER, ROTARY
1416	△1-546-066-61	s 1.5" CRT ASSY	1466	3-725-275-01	o LABEL, LOCK
1417	1-570-984-11	s SWITCH, TOGGLE "AUDIO IND" "ZEBRA MARKER"	1467	3-725-277-01	s KNOB (B)
1418	1-570-985-11	s SWITCH, TOGGLE "TALLY"	1468	3-725-278-01	s PACKING (SW), DROP PROTECTION
1419	1-625-086-14	o PRINTED CIRCUIT BOARD, LP-40	1469	3-725-279-01	s PACKING (VR), DROP PROTECTION
1420	1-625-087-11	o PRINTED CIRCUIT BOARD, LP-42	1470	3-725-280-01	s PACKING (A), DROP PROTECTION
1421	1-625-088-13	o PRINTED CIRCUIT BOARD, SW-260	1471	3-725-282-03	o HINGE, PC BOARD
1422	1-625-089-11	o PRINTED CIRCUIT BOARD, VR-67	1472	3-729-062-01	o SPACER, MASK
1423	1-635-204-12	o PRINTED CIRCUIT BOARD, LP-58	1473	3-729-099-01	o MIRROR
1424	1-945-970-11	s HARNESS (VF CABLE)	1474	3-729-701-21	s RUBBER (CARBON), CONDUCTIVE
1425	2-277-457-00	s KNOB, STOPPER	1475	3-734-739-01	o SHEET, INSULATING, MASK
1426	2-277-466-01	s SPRING, COMPRESSION	1476	3-734-740-01	o SUPPORT
1427	3-165-162-01	s SCREW (+P2.6X5) (TYPE1)	1477	3-734-760-01	o RING
1428	3-165-904-01	s WASHER, SCREW STOPPER	1478	3-742-001-02	o HOLDER (2), MIRROR
1429	3-166-307-01	o PLATE, SHIELD	1479	3-742-004-01	s RING, NYLON
1430	3-335-207-01	s SHAFT, MOTOR	1480	3-742-038-01	o NUT (2), PLATE
1431	3-573-150-00	o SPRING, COMPRESSION	1481	3-742-039-01	s CUSHION, MICROPHONE
1432	3-657-654-00	o RING, ORNAMENTAL	1482	3-742-045-01	o TUBE
1433	3-657-657-00	s SCREW (M5)	1483	3-742-046-01	o BRACKET, SAFETY
1434	3-672-241-00	o RING (B), SLEEVE	1484	3-742-051-01	o LABEL
1435	3-672-250-00	o RING (M2.6), O	1485	3-742-052-01	o HOLDER, EYE CUP
1436	3-680-595-01	o SUPPORT, ROTARY	1486	3-742-053-01	o RING
1437	3-685-104-01	s NUT (M6), CONTROL	1487	3-742-054-01	o TUBE
1438	3-685-118-02	o SPACER, RING	1488	3-742-057-03	o BASE, MICROPHONE HOLDER
1439	3-685-129-01	o SPRING (N), LEAF, VF	1489	3-742-058-01	o RING, FIXED
1440	3-710-007-02	s GUIDE, VF SLIDE	1490	3-742-059-01	o RING, HOLD
1441	3-710-008-02	s HOUSING, STOPPER	1491	3-742-060-01	o HOLDER, RING
1442	3-716-342-02	o GUARD, CONNECTOR	1492	3-742-062-01	o TUBE (2), VF
1443	3-720-946-01	o PIN, MICROPHONE STOPPER	1493	3-742-069-01	o PLATE (C), DISPLAY
1444	3-720-977-01	o PACKING (A), DROP PROTECTION	1494	3-742-074-01	s SCREW (3X6)
1445	3-720-978-01	s PACKING (B), DROP PROTECTION	1495	3-742-075-01	o HOLDER, FILTER
1446	3-722-474-05	o BRACKET, LP	1496	7-671-158-01	s BALL, STAINLESS (2.5 DIA)
1447	3-722-475-04	o COVER (A)	1497	3-176-414-01	o RETAINER, RING
1448	3-722-476-01	o NUT, PLATE	1498	X-3166-692-1	s GUARD ASSY, VR
1449	3-722-477-01	o BRACKET, SW			
1450	3-722-481-04	o HOLDER, PC BOARD			

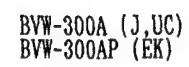
VIEWFINDER

VIEWFINDER (Serial No. 13001 AND HIGHER(UC)
32001 AND HIGHER(J)
44001 AND HIGHER(EK))

No.	Part No.	SP Description	
1401	A-7612-320-D	o GUIDE ASSY, VF SLIDE	1458 3-722-477-01 o BRACKET, SW
1402	A-7612-389-B	s TUBE SUB ASSY, VF	1459 3-722-481-04 o HOLDER, PC BOARD
1403	A-7612-390-D	o HOLDER ASSY, MICROPHONE	1460 3-722-485-01 o ROLLER, SLIDE
1404	ΔA-8260-215-A	o VF COMPLETE ASSY (UC)	1461 3-722-486-01 s KNOB
1405	ΔA-8260-217-A	o VF COMPLETE ASSY (J)	1462 3-720-974-04 o BRACKET (2), PC BOARD
1406	ΔA-8260-219-A	o VF COMPLETE ASSY (EK)	1463 3-722-494-01 o BRACKET, VR SW
1407	ΔA-8271-332-A	o MOUNTED CIRCUIT BOARD, VF-50	1464 3-723-002-14 o VF (MAIN)
1408	X-3166-692-1	s GUARD ASSY, VR	1465 3-723-069-02 o PROTECTOR, MC
1409	X-3710-050-5	o VF (MAIN) BLOCK ASSY	1466 3-723-073-01 o CUSHION, MIRROR
1410	A-3722-366-8	o TUBE ASSY, VF ROTARY GUIDE	1467 3-723-079-01 s EYE CUP
1411	X-3722-368-5	o LIO ASSY, VF	1468 3-724-744-03 o WASHER
1412	X-3722-426-1	o BRACKET ASSY, SW	1469 3-724-745-01 o SHEET (C), INSULATING
1413	X-3722-436-1	o LENS ASSY	1470 3-724-746-01 o SHEET (B), INSULATING
1414	X-3722-437-2	o BRACKET ASSY (C), VR. SW	1471 3-725-220-02 o TUBE (A), CRT
1415	1-238-290-11	s RES, VAR, CARBON 1k "CONTORAST"	1472 3-725-221-04 o TUBE (B), CRT
1416	1-238-293-11	s RES, VAR, CARBON 10k "BRIGHT"	1473 3-725-257-01 o BOSS
1417	1-238-296-11	s RES, VAR, CARBON 10k "PEAKING"	1474 3-725-258-03 o STOPPER, ROTARY
1418	Δ1-546-092-11	s 1.5" CRT ASSY	1475 3-725-275-01 o LABEL, LOCK
1421	1-570-984-11	s SWITCH, TOGGLE "ZEBRA" AUDIO IND"	1476 3-725-277-01 s KNOB (B)
1422	1-570-985-11	s SWITCH, TOGGLE "TALLY"	1477 3-725-278-01 s PACKING (SW), DROP PROTECTION
1423	1-643-704-11	o PRINTED CIRCUIT BOARD, LP-64	1478 3-725-279-01 s PACKING (VR), DROP PROTECTION
1424	1-643-705-11	o PRINTED CIRCUIT BOARD, LP-65	1479 3-725-280-01 s PACKING (A), DROP PROTECTION
1425	1-643-706-11	o PRINTED CIRCUIT BOARD, LP-66	1480 3-725-282-03 o HINGE, PC BOARD
1426	1-643-707-11	o PRINTED CIRCUIT BOARD, CN-771	1481 3-729-099-01 o MIRROR
1427	1-643-708-11	o PRINTED CIRCUIT BOARD, VR-149	1482 3-729-701-21 s RUBBER (CARBON), CONDUCTIVE
1428	1-643-709-11	o PRINTED CIRCUIT BOARD, SW-562	1483 3-734-739-01 o SHEET, INSULATING, MASK
1429	1-950-039-11	s HARNESS (VF CABLE-2)	1484 3-734-740-01 o SUPPORT
1430	2-277-426-01	o CLAMP	1485 3-734-760-01 o RING
1431	2-277-457-00	s KNOB, STOPPER	1486 3-742-001-02 o HOLDER (2), MIRROR
1432	2-277-465-01	s SPRING, COMPRESSION	1487 3-742-004-01 s RING, NYLON
1433	3-165-162-01	s SCREW (+P2.6X5) (TYPE1)	1488 3-742-038-01 o NUT (2), PLATE
1434	3-165-904-01	s WASHER, SCREW STOPPER	1489 3-742-039-01 s CUSHION, MICROPHONE
1435	3-166-307-01	o PLATE, SHIELD	1490 3-742-045-01 o TUBE
1436	3-176-022-03	o SPACER (B), MASK	1491 3-742-046-01 o BRACKET, SAFETY
1437	3-176-023-01	o PLATE (339), DISPLAY	1492 3-742-051-01 o LABEL
1438	3-176-414-01	o RETAINER, RING	1493 3-742-052-01 o HOLDER, EYE CUP
1439	3-335-207-01	s SHAFT, MOTOR	1494 3-742-053-01 o RING
1440	3-573-150-00	o SPRING, COMPRESSION	1495 3-742-054-01 o TUBE
1441	3-657-654-00	o RING, ORNAMENTAL	1496 3-742-057-03 o HOLDER (BASE), MICROPHONE
1442	3-657-657-00	o SCREW (M5)	1497 3-742-058-01 o RING, FIXED
1443	3-672-241-00	o RING (B), SLEEVE	1498 3-742-059-01 o RING, HOLD
1444	3-672-250-00	o RING (M2.6), O	1499 3-742-060-01 o HOLDER, RING
1445	3-680-595-01	o SUPPORT, ROTARY	1500 3-742-062-01 o TUBE (2), VF
1446	3-685-104-01	s NUT (M6), CONTOROL	1501 3-742-074-01 s SCREW (3X6)
1447	3-685-118-02	o SPACER, RING	1502 3-742-075-01 o HOLDER, FILTER
1448	3-685-129-01	o SPRING (N), LEAF, VF	1503 3-742-205-02 o BRACKET, CN
1449	3-710-007-02	s GUIDE, VF SLIDE	1504 3-177-365-01 o SHEET (CN), INSULATING
1450	3-710-008-02	s HOUSING, STOPPER	
1451	3-716-342-02	o GUARD, CONNECTOR	
1452	3-720-946-01	o PIN, MICROPHONE STOPPER	
1453	3-720-977-01	o PACKING (A), DROP PROTECTION	
1454	3-720-978-01	s PACKING (B), DROP PROTECTION	
1455	3-722-474-05	o BRACKET, LP	
1456	3-722-475-04	o COVER (A)	
1457	3-722-476-01	o NUT, PLATE	

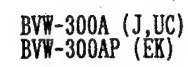
VIEWFINDER

Serial No. UP TO 12999 (UC)
UP TO 31999 (J)
UP TO 43999 (EK)



VIEWFINDER

Serial No.13001 AND HIGHER (UC)
32001 AND HIGHER (J)
44001 AND HIGHER (EK)



BATTERY CASE

Exploded view diagram of a vehicle's rear window assembly. The diagram shows the main window frame (1501) with various components like the window glass (1510), window regulator (1502), window motor (1503), window switch (1504), window latch (1505), window seal (1506), window trim (1507), window weatherstripping (1508), and window mounting brackets (1509, 1511, 1512, 1513, 1514). Dimensions and part numbers are provided for each component.

Key components and dimensions shown:

- 1501: Main window frame
- 1502: Window regulator
- 1503: Window motor
- 1504: Window switch
- 1505: Window latch
- 1506: Window seal
- 1507: Window trim
- 1508: Window weatherstripping
- 1509: Window mounting bracket
- 1510: Window glass
- 1511: Window mounting bracket
- 1512: Window mounting bracket
- 1513: Window mounting bracket
- 1514: Window mounting bracket

Dimensions and part numbers for fasteners:

- P2.6 x 6
- P2.6 x 6
- PSW3 x 8
- PSW3 x 8
- B4 x 5
- B3 x 5
- B3 x 5
- B3 x 5
- B4 x 5

BATTERY CASE

BATTERY CASE

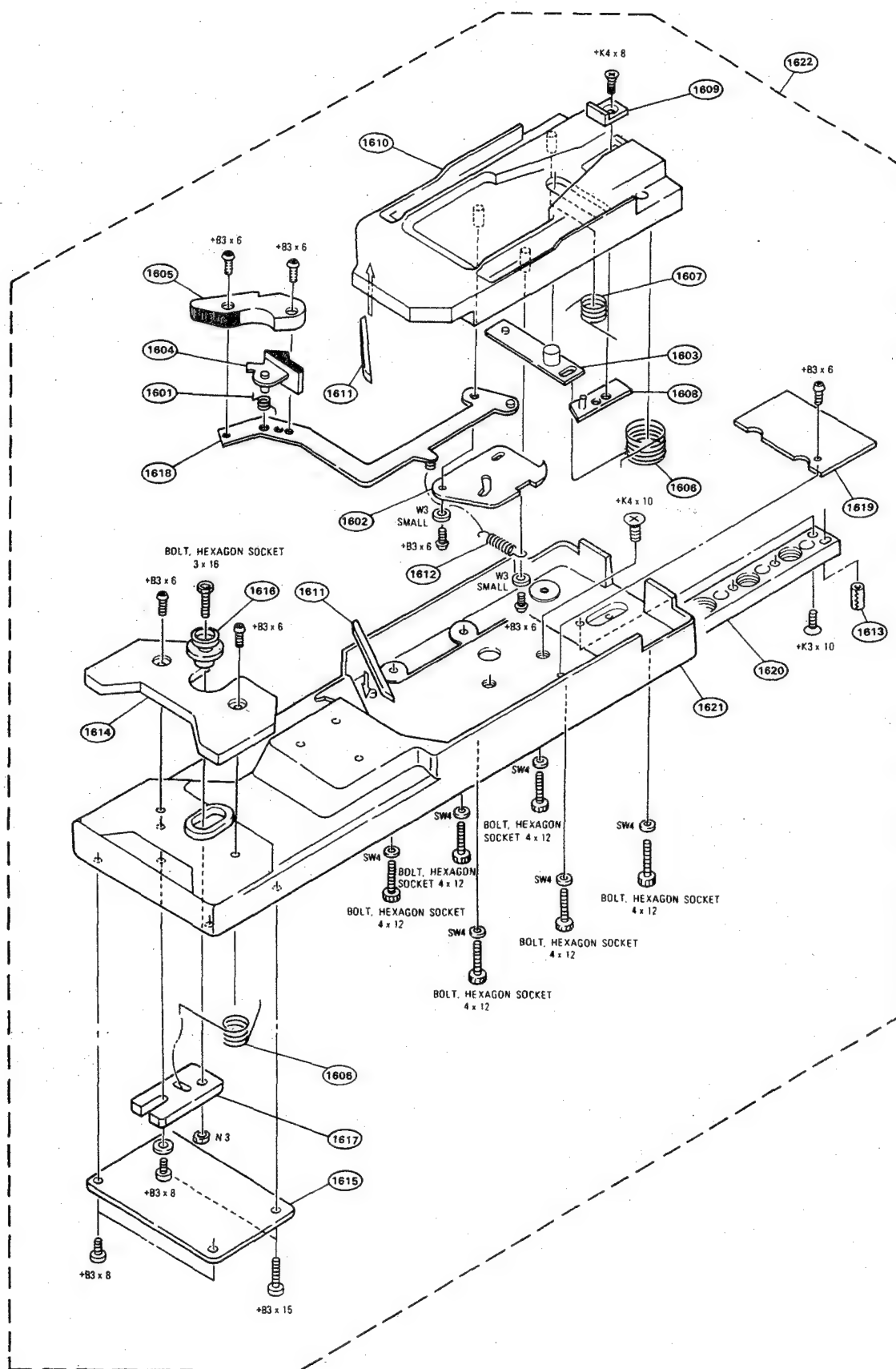
No.	Part No.	SP Description
1501	A-6703-651-C	s CASE ASSY, BATTERY
1502	X-3717-701-3	o COVER ASSY, TOP, BATTERY
1503	3-669-596-00	s WASHER (2.3), STOPPER
1504	3-703-075-00	s CAP 2, SHAFT
1505	3-717-702-01	s PUSH BUTTON
1506	3-717-703-03	s HOOK
1507	3-717-707-02	o CUSHION (2)
1508	3-717-708-01	o RETAINER, CASE
1509	3-717-709-01	o SHAFT, LID
1510	3-718-040-01	o COVER (1), BATTERY CASE
1511	3-718-172-01	o RETAINER, HOOK
1512	3-729-720-01	o CUSHION (LEFT)
1513	3-729-721-01	o CUSHION (RIGHT)
1514	X-3717-742-5	o CASE SUB ASSY, BATTERY

TRIPOD ADAPTOR

TRIPOD ADAPTOR


No.	Part No.	SP Description
1601	2-381-631-01	o SPRING
1602	2-381-632-01	o ARM, LOCKER
1603	2-381-633-01	o SOLENOID
1604	2-381-635-01	o LEVER, LOCK
1605	2-381-636-01	o KNOB
1606	2-381-637-01	o SPRING
1607	2-381-638-01	o SPRING
1608	2-381-640-01	o DOG
1609	2-381-641-01	o COLLAR
1610	2-381-642-01	o MOUNT
1611	2-381-648-01	o INSULATOR, KNOB
1612	2-381-652-01	o SPRING, TENSION
1613	2-381-654-01	o PIN, SPRING
1614	3-678-704-00	o SPACER
1615	3-720-906-01	o LID (S), REAR
1616	3-720-907-01	o PIN (S), REAR
1617	3-720-908-01	o TABLE (S), PIN, REAR
1618	3-720-909-01	o KNOB CRANK
1619	3-720-910-01	o SHEET, SLIDE
1620	3-720-911-01	o BASE, TRIPOD FITTING SCREW
1621	3-720-912-01	o FRAME (S)
1622	OPTIONAL ACCESSORY: TRIPOD ADAPTOR "VCT-14"	

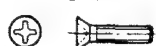
TRIPOD ADAPTOR

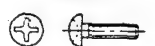



SCREWS

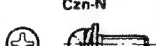
SCREWS


+PS Czn-N	
	
7-628-□□□-□□	
Size	Parts No.
2 x 4	255-20
x 5	283-00
x 6	255-40
x 8	255-50
x 10	283-10
x 12	283-70
2.6 x 4	284-00
x 5	284-10
x 6	284-20
x 8	284-30
x 10	284-40
x 12	259-70
x 14	259-80
x 16	260-00
x 20	260-20

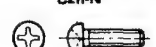
+K Cr-N	
	
7-682-□□□□-□□	
SIZE	Parts No.
3 x 4	245-04
x 5	246-04
x 6	247-04
x 8	248-04
x 10	249-04
x 12	250-04
x 14	251-04
x 16	252-04
x 20	253-04
4 x 6	260-04
x 8	261-04
x 10	262-04
x 12	263-04
x 14	264-04
x 16	265-04
x 20	266-04


+B Bzn-N	
	
7-621-□□□□-□□	
Size	Parts No.
2 x 3	772-00
x 4	772-10
x 5	772-20
x 6	772-30
x 8	772-40
x 10	772-50
x 12	772-60
x 14	772-70
x 16	772-80
x 20	==
2.6 x 3	775-00
x 4	775-10
x 5	775-20
x 6	775-95
x 8	775-40
x 10	775-50
x 12	775-60
x 14	775-70
x 16	775-80
x 20	775-90

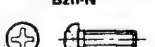
+B Cr-N	
	
7-621-□□□□-□□	
SIZE	Parts No.
2 x 3	772-08
x 4	772-18
x 5	771-06
x 6	772-38
x 8	772-48
x 10	772-58
x 12	772-68
x 14	772-78
x 16	772-88
x 20	-
2.6 x 3	775-08
x 4	773-86
x 5	770-87
x 6	770-67
x 8	770-99
x 10	773-87
x 12	775-88
x 14	775-78
x 16	775-88
x 20	773-91

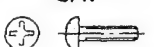
+PSW Czn-N	
	
7-682-□□□□-□□	
SIZE	Parts No.
3 x 6	947-01
x 8	948-01
x 10	949-01
x 12	950-01
x 14	951-01
x 16	952-01
x 20	953-01
x 25	954-01
x 30	955-01
x 35	956-01
x 40	957-01
4 x 8	961-01
x 10	962-01
x 12	963-01
x 14	964-01
x 16	965-01
x 20	966-01
x 25	967-01
x 30	968-01
x 35	969-01
x 40	970-01


+P Bzn-N4	
	
7-685-□□□□-□□	
SIZE	Parts No.
2 x 4	102-79
x 5	103-79
x 6	104-79
x 8	105-79
x 10	106-79
x 12	107-79
2.6 x 4	131-79
x 5	132-79
x 6	133-79
x 8	134-79
x 10	135-79
x 12	136-79
x 14	137-79
x 16	138-79
3 x 5	144-79
x 6	645-79
x 8	646-79
x 10	647-79
x 12	648-79
x 14	649-79
x 16	650-79
x 18	651-79
x 20	651-79
x 25	152-19
x 30	153-19
x 35	154-19
x 40	155-19
4 x 6	158-19
x 8	659-79
x 10	660-79
x 12	661-79
x 14	662-79
x 16	663-79
x 20	664-79
x 25	665-79
x 30	666-79
x 35	167-79


+P Czn-N	
	
7-621-□□□□-□□	
SIZE	Parts No.
2 x 3	255-15
x 4	255-25
x 5	255-35
x 6	255-45
x 8	255-55
x 10	255-65
x 12	255-75
x 14	255-85
x 16	256-05
x 20	256-25
2.3 x 5	257-35
x 6	257-45
x 8	257-55
x 10	257-65
x 12	257-75
x 14	257-85
x 16	258-05
x 20	258-25
2.6 x 3	259-15
x 4	259-25
x 5	259-35
x 6	259-45
x 8	259-55
x 10	259-65
x 12	259-75
x 14	259-85
x 16	260-05
x 20	260-25


+K Bzn-N	
	
7-682-□□□□-□□	
SIZE	Parts No.
3 x 4	245-09
x 5	246-09
x 6	247-09
x 8	248-09
x 10	249-09
x 12	250-09
x 14	251-09
x 16	252-09
x 20	253-09
4 x 6	260-09
x 8	261-09
x 10	262-09
x 12	263-09
x 14	264-09
x 16	265-09
x 20	266-09
5 x 8	274-09
x 10	275-09
x 12	276-09
x 14	277-09
x 16	278-09
x 20	279-09
x 25	280-09
x 30	281-09
x 35	282-09
x 40	283-09
x 45	284-09
x 50	285-09


+B Bzn-N	
	
7-682-□□□□-□□	
SIZE	Parts No.
3 x 3	544-09
x 4	545-09
x 5	546-09
x 6	547-09
x 8	548-09
x 10	549-09
x 12	550-09
x 14	551-09
x 16	552-09
x 20	553-09
x 30	555-09
4 x 4	558-09
x 5	559-09
x 6	560-09
x 8	561-09
x 10	562-09
x 12	563-09
x 14	564-09
x 16	565-09
x 20	566-09
5 x 8	574-09
x 10	575-09
x 12	576-09
x 14	577-09
x 16	578-09
x 20	579-09

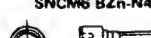
+B Cr-N	
	
7-682-□□□□-□□	
Size	Parts No.
3 x 3	544-04
x 4	545-04
x 5	546-04
x 6	547-04
x 8	548-04
x 10	549-04
x 12	550-04
x 14	551-04
x 16	552-04
x 20	553-04
4 x 4	558-04
x 5	559-04
x 6	560-04
x 8	561-04
x 10	562-04
x 12	563-04
x 14	564-04
x 16	565-04
x 20	566-04
x 25	567-04
x 30	568-04
x 35	569-04
x 40	570-04
x 45	571-04
x 50	572-04
5 x 8	574-04
x 10	575-04
x 12	576-04
x 14	577-04
x 16	578-04
x 20	579-04
x 25	580-04
x 30	581-04


PRECISION +K Cr-N	
	
7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.8	-
x 2	-
x 2.2	-
x 2.5	-
x 2.8	-
x 3	-
x 3.5	-
x 4	-
x 4.5	-
x 5	-
x 5.5	-
x 6	-
2 x 2	452-07
x 2.2	452-87
x 2.5	-
x 2.8	-
x 3	452-17
x 3.5	-
x 4	452-27
x 4.5	-
x 5	-
x 5.5	-
x 6	-
x 7	452-67
x 8	-
2.6 x 3.5	-
x 4	454-17
x 4.5	-
x 5	454-37
x 5.5	-
x 6	-
x 7	-
x 8	-

PRECISION +K Bzn-N	
	
7-627-□□□-□□	
SIZE	Parts No.
1.7 x 1.8	-
x 2	450-28
x 2.2	-
x 2.5	450-48
x 2.8	-
x 3	450-58
x 3.5	-
x 4	450-78
x 4.5	-
x 5	450-98
x 5.5	-
x 6	-
2 x 2	452-08
x 2.2	452-88
x 2.5	452-48
x 2.8	-
x 3	452-18
x 3.5	452-98
x 4	452-28
x 4.5	-
x 5	452-38
x 5.5	-
x 6	452-58
x 7	452-68
x 8	452-78
2.6 x 3.5	-
x 4	-
x 4.5	454-28
x 5	454-38
x 5.5	-
x 6	-
x 7	-
x 8	-

PRECISION +P Bzn-N	
	
7-627-□□□-□□	
Size	Parts No.
1.7 x 1.8	552-18
x 1.8	-
x 2	552-28
x 2.2	-
x 2.5	552-08
x 2.8	-
x 3	552-38
x 3.5	552-78
x 4	552-48
x 4.5	-
x 5	552-58
x 5.5	-
x 6	552-68
x 8	552-98
2 x 1.8	554-38
x 2	553-18
x 2.2	-
x 2.5	553-28
x 2.8	554-58
x 3	553-38
x 3.5	554-18
x 4	553-48
x 4.5	553-58
x 5	554-28
x 5.5	554-68
x 6	553-68
x 7	553-88
x 8	553-98
x 9	554-48
x 10	553-78
2.6 x 2.8	556-08
x 3	-
x 3.5	556-28
x 4	556-38
x 4.5	556-48
x 5	556-58
x 5.5	-
x 6	556-78
x 7	-
x 8	556-98
x 9	-
x 10	557-48

PRECISION +P Cr-N	
	
7-627-□□□-□□	
Size	Parts No.
1.7 x 1.8	-
x 1.8	-
x 2	552-27
x 2.2	552-87
x 2.5	552-07
x 2.8	-
x 3	552-37
x 3.5	-
x 4	552-47
x 4.5	552-67
x 5	552-57
x 5.5	557-07
x 6	552-77
x 8	552-97
2 x 1.8	554-37
x 2	553-17
x 2.2	554-07
x 2.5	553-27
x 2.8	-
x 3	553-37
x 3.5	554-17
x 4	553-47
x 4.5	553-57
x 5	553-67
x 5.5	-
x 6	554-27
x 7	553-87
x 8	553-97
x 10	553-77
2.6 x 2.8	558-07
x 3	-
x 3.5	-
x 4	556-37
x 4.5	-
x 5	556-57
x 5.5	-
x 6	556-77
x 7	-
x 8	556-97
x 9	-
x 10	557-47

BOLT, HEXAGON SOCKET SNCM6 BZN-N4	
	
7-683-□□□-□□	
SIZE	Parts No.
3 x 4	401-04
3 x 5	402-04
3 x 6	403-04
3 x 8	404-04
3 x 10	405-04
3 x 12	406-04
3 x 14	407-04
3 x 16	408-04
3 x 20	410-04
4 x 5	417-04
4 x 6	418-04
4 x 8	419-04
4 x 10	420-04
4 x 12	421-04
4 x 14	422-04
4 x 16	423-04
4 x 20	425-04
4 x 25	427-04
5 x 8	434-04
5 x 10	435-04
5 x 12	436-04
5 x 14	437-04
5 x 16	438-04
5 x 20	440-04
5 x 25	442-04
5 x 30	444-04
5 x 50	447-04
6 x 10	452-04
6 x 12	453-04
6 x 14	454-04
6 x 16	455-04
6 x 20	457-04
6 x 25	459-04
6 x 30	461-04
6 x 35	463-04
6 x 40	465-04
6 x 45	466-04
6 x 55	468-04
8 x 12	470-04
8 x 14	471-04
8 x 16	472-04
8 x 20	473-04
8 x 25	474-04
8 x 30	475-04
8 x 35	476-04
8 x 40	477-04
8 x 45	478-04
8 x 50	479-04

HEXAGON SET SCREW (FLAT) SNCM6-PD	
	
7-621-□□□-□□	
SIZE	Parts No.
2 x 2.5	731-08
2 x 3	732-08
2 x 4	733-08
2 x 5	-
2 x 6	-
2.6 x 3	737-08
2.6 x 4	738-08
2.6 x 5	739-08
2.6 x 6	740-08

13-3. ELECTRICAL PARTS LIST

CAPACITOR, CHIP CERAMIC

Part No. SP Description

1-163-083-00 s CAP, CHIP CERAMIC 1pF ± 0.25 pF 50V
 1-163-085-00 s CAP, CHIP CERAMIC 2pF ± 0.25 pF 50V
 1-163-087-00 s CAP, CHIP CERAMIC 4pF ± 0.25 pF 50V
 1-163-089-00 s CAP, CHIP CERAMIC 6pF ± 0.5 pF 50V
 1-163-091-00 s CAP, CHIP CERAMIC 8pF ± 0.5 pF 50V

1-163-093-00 s CAP, CHIP CERAMIC 10pF 5% 50V
 1-163-097-00 s CAP, CHIP CERAMIC 15pF 5% 50V
 1-163-101-00 s CAP, CHIP CERAMIC 22pF 5% 50V
 1-163-105-00 s CAP, CHIP CERAMIC 33pF 5% 50V
 1-163-109-00 s CAP, CHIP CERAMIC 47pF 5% 50V

1-163-113-00 s CAP, CHIP CERAMIC 68pF 5% 50V
 1-163-117-00 s CAP, CHIP CERAMIC 100pF 5% 50V
 1-163-121-00 s CAP, CHIP CERAMIC 150pF 5% 50V
 1-163-125-00 s CAP, CHIP CERAMIC 220pF 5% 50V
 1-163-129-00 s CAP, CHIP CERAMIC 330pF 5% 50V

1-163-133-00 s CAP, CHIP CERAMIC 470pF 5% 50V
 1-163-137-00 s CAP, CHIP CERAMIC 680pF 5% 50V
 1-163-141-00 s CAP, CHIP CERAMIC 1000pF 5% 50V
 1-163-145-00 s CAP, CHIP CERAMIC 1500pF 10% 50V
 1-164-161-11 s CAP, CHIP CERAMIC 2200pF 10% 100V

1-164-182-11 s CAP, CHIP CERAMIC 3300pF 10% 100V
 1-163-017-00 s CAP, CHIP CERAMIC 4700pF 10% 50V
 1-163-019-00 s CAP, CHIP CERAMIC 6800pF 10% 50V
 1-164-232-11 s CAP, CHIP CERAMIC 0.01 20% 100V
 1-163-023-00 s CAP, CHIP CERAMIC 0.015 10% 50V

1-163-034-00 s CAP, CHIP CERAMIC 0.033 50V
 1-163-035-00 s CAP, CHIP CERAMIC 0.047 50V
 1-163-036-00 s CAP, CHIP CERAMIC 0.068 50V
 1-163-038-00 s CAP, CHIP CERAMIC 0.1 50V

CAPACITOR, TANTALUM

Part No. SP Description

1-131-396-00 s CAP, TANTALUM 0.01 20% 35V
 1-131-397-00 s CAP, TANTALUM 0.015 20% 35V
 1-131-398-00 s CAP, TANTALUM 0.022 20% 35V
 1-131-399-00 s CAP, TANTALUM 0.033 20% 35V
 1-131-400-00 s CAP, TANTALUM 0.047 20% 35V

1-131-401-00 s CAP, TANTALUM 0.068 10% 35V
 1-131-341-00 s CAP, TANTALUM 0.1 10% 35V
 1-131-342-00 s CAP, TANTALUM 0.15 10% 35V
 1-131-343-00 s CAP, TANTALUM 0.22 10% 35V
 1-131-344-00 s CAP, TANTALUM 0.33 10% 35V

1-131-412-00 s CAP, TANTALUM 0.47 20% 20V
 1-131-345-00 s CAP, TANTALUM 0.47 10% 35V
 1-131-410-00 s CAP, TANTALUM 0.68 20% 25V
 1-131-587-11 s CAP, TANTALUM 0.68 10% 35V
 1-131-413-00 s CAP, TANTALUM 1.0 20% 20V

1-131-347-00 s CAP, TANTALUM 1.0 10% 35V
 1-131-416-00 s CAP, TANTALUM 1.5 20% 16V
 1-131-348-00 s CAP, TANTALUM 1.5 10% 35V
 1-131-419-00 s CAP, TANTALUM 2.2 20% 10V
 1-131-361-00 s CAP, TANTALUM 2.2 10% 20V

1-131-349-00 s CAP, TANTALUM 2.2 10% 35V
 1-131-422-00 s CAP, TANTALUM 3.3 20% 6.3V
 1-131-368-00 s CAP, TANTALUM 3.3 10% 16V
 1-131-356-00 s CAP, TANTALUM 3.3 10% 25V
 1-131-350-00 s CAP, TANTALUM 3.3 10% 35V

1-131-425-00 s CAP, TANTALUM 4.7 20% 3.15V
 1-131-375-00 s CAP, TANTALUM 4.7 10% 10V
 1-131-363-00 s CAP, TANTALUM 4.7 10% 20V
 1-131-351-00 s CAP, TANTALUM 4.7 10% 35V
 1-131-382-00 s CAP, TANTALUM 6.8 10% 6.3V

1-131-370-00 s CAP, TANTALUM 6.8 10% 16V
 1-131-358-00 s CAP, TANTALUM 6.8 10% 25V
 1-131-352-00 s CAP, TANTALUM 6.8 10% 35V
 1-131-389-00 s CAP, TANTALUM 10 10% 3.15V
 1-131-377-00 s CAP, TANTALUM 10 10% 10V

1-131-365-00 s CAP, TANTALUM 10 10% 20V
 1-131-353-00 s CAP, TANTALUM 10 10% 35V
 1-131-384-00 s CAP, TANTALUM 15 10% 6.3V
 1-131-372-00 s CAP, TANTALUM 15 10% 16V
 1-131-360-00 s CAP, TANTALUM 15 10% 25V

1-131-391-00 s CAP, TANTALUM 22 10% 3.15V
 1-131-379-00 s CAP, TANTALUM 22 10% 10V
 1-131-367-00 s CAP, TANTALUM 22 10% 20V
 1-131-386-00 s CAP, TANTALUM 33 10% 6.3V
 1-131-374-00 s CAP, TANTALUM 33 10% 16V

1-131-393-00 s CAP, TANTALUM 47 10% 3.15V
 1-131-381-00 s CAP, TANTALUM 47 10% 10V
 1-131-388-00 s CAP, TANTALUM 68 10% 6.3V
 1-131-395-00 s CAP, TANTALUM 100 10% 3.15V

RESISTOR, CHIP

Part No. SP Description

1-216-295-00	s RES, CHIP	0	5%	1/10W
1-216-298-00	s RES, CHIP	2.2	5%	1/10W
1-216-302-00	s RES, CHIP	2.7	5%	1/10W
1-216-304-11	s RES, CHIP	3.3	5%	1/10W
1-216-306-11	s RES, CHIP	3.9	5%	1/10W
1-216-308-00	s RES, CHIP	4.7	5%	1/10W
1-216-309-00	s RES, CHIP	5.6	5%	1/10W
1-216-311-00	s RES, CHIP	6.8	5%	1/10W
1-216-313-00	s RES, CHIP	8.2	5%	1/10W
1-216-001-00	s RES, CHIP	10	5%	1/10W
1-216-003-11	s RES, CHIP	12	5%	1/10W
1-216-005-00	s RES, CHIP	15	5%	1/10W
1-216-007-00	s RES, CHIP	18	5%	1/10W
1-216-009-00	s RES, CHIP	22	5%	1/10W
1-216-011-00	s RES, CHIP	27	5%	1/10W
1-216-013-00	s RES, CHIP	33	5%	1/10W
1-216-015-00	s RES, CHIP	39	5%	1/10W
1-216-017-00	s RES, CHIP	47	5%	1/10W
1-216-019-00	s RES, CHIP	56	5%	1/10W
1-216-021-00	s RES, CHIP	68	5%	1/10W
1-216-023-00	s RES, CHIP	82	5%	1/10W
1-216-025-00	s RES, CHIP	100	5%	1/10W
1-216-027-00	s RES, CHIP	120	5%	1/10W
1-216-029-00	s RES, CHIP	150	5%	1/10W
1-216-031-00	s RES, CHIP	180	5%	1/10W
1-216-033-00	s RES, CHIP	220	5%	1/10W
1-216-035-00	s RES, CHIP	270	5%	1/10W
1-216-037-00	s RES, CHIP	330	5%	1/10W
1-216-039-00	s RES, CHIP	390	5%	1/10W
1-216-041-00	s RES, CHIP	470	5%	1/10W
1-216-043-00	s RES, CHIP	560	5%	1/10W
1-216-045-00	s RES, CHIP	680	5%	1/10W
1-216-047-00	s RES, CHIP	820	5%	1/10W
1-216-049-00	s RES, CHIP	1k	5%	1/10W
1-216-051-00	s RES, CHIP	1.2k	5%	1/10W
1-216-053-00	s RES, CHIP	1.5k	5%	1/10W
1-216-055-00	s RES, CHIP	1.8k	5%	1/10W
1-216-057-00	s RES, CHIP	2.2k	5%	1/10W
1-216-059-00	s RES, CHIP	2.7k	5%	1/10W
1-216-061-00	s RES, CHIP	3.3k	5%	1/10W
1-216-063-00	s RES, CHIP	3.9k	5%	1/10W
1-216-065-00	s RES, CHIP	4.7k	5%	1/10W
1-216-067-00	s RES, CHIP	5.6k	5%	1/10W
1-216-069-00	s RES, CHIP	6.8k	5%	1/10W
1-216-071-00	s RES, CHIP	8.2k	5%	1/10W
1-216-073-00	s RES, CHIP	10k	5%	1/10W
1-216-075-00	s RES, CHIP	12k	5%	1/10W
1-216-077-00	s RES, CHIP	15k	5%	1/10W
1-216-079-00	s RES, CHIP	18k	5%	1/10W
1-216-081-00	s RES, CHIP	22k	5%	1/10W
1-216-083-00	s RES, CHIP	27k	5%	1/10W
1-216-085-00	s RES, CHIP	33k	5%	1/10W
1-216-748-11	s RES, CHIP	39k	5%	1/10W
1-216-089-00	s RES, CHIP	47k	5%	1/10W
1-216-091-00	s RES, CHIP	56k	5%	1/10W

RESISTOR, CHIP

Part No. SP Description

1-216-093-00	s RES, CHIP	68k	5%	1/10W
1-216-095-00	s RES, CHIP	82k	5%	1/10W
1-216-097-00	s RES, CHIP	100k	5%	1/10W
1-216-099-00	s RES, CHIP	120k	5%	1/10W
1-216-101-00	s RES, CHIP	150k	5%	1/10W
1-216-103-00	s RES, CHIP	180k	5%	1/10W
1-216-105-00	s RES, CHIP	220k	5%	1/10W
1-216-107-00	s RES, CHIP	270k	5%	1/10W
1-216-109-00	s RES, CHIP	330k	5%	1/10W
1-216-111-00	s RES, CHIP	390k	5%	1/10W
1-216-113-00	s RES, CHIP	470k	5%	1/10W
1-216-115-00	s RES, CHIP	560k	5%	1/10W
1-216-117-00	s RES, CHIP	680k	5%	1/10W
1-216-119-00	s RES, CHIP	820k	5%	1/10W
1-216-121-00	s RES, CHIP	1.0M	5%	1/10W
1-216-123-11	s RES, CHIP	1.2M	5%	1/10W
1-216-125-00	s RES, CHIP	1.5M	5%	1/10W
1-216-127-11	s RES, CHIP	1.8M	5%	1/10W
1-216-129-00	s RES, CHIP	2.2M	5%	1/10W
1-216-131-11	s RES, CHIP	2.7M	5%	1/10W
1-216-133-00	s RES, CHIP	3.3M	5%	1/10W

AFM-6P BOARD

Ref.No.

or Q'ty Parts No. SP Description

1pc A-6713-350-A o MOUNTED CIRCUIT BOARD, AFM-6P
 1pc 3-724-705-01 o PLATE (AFM-6), ORNAMENTAL
 1pc 3-724-753-01 o RING
 5pcs 3-729-061-01 s SCREW (M2X4.5) (TYPE 1)
 1pc 7-688-001-12 s W 2, MIDDLE

C1 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C2 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C3 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C4 1-163-227-11 s CERAMIC 10PF 5% 50V
 C6 1-163-235-11 s CERAMIC 22PF 5% 50V

C7 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C8 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C18 1-163-235-11 s CERAMIC 22PF 5% 50V
 C101 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
 C105 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V

C106 1-163-235-11 s CERAMIC 22PF 5% 50V
 C108 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
 C115 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C117 1-126-391-11 s ELECT, CHIP 47uF 20% 6.3V
 C120 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V

C201 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10V
 C401 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C402 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C403 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C405 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C501 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C502 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C503 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C504 1-126-394-11 s ELECT, CHIP 10uF 20% 16V
 C529 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

C530 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C542 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V
 C543 1-135-157-21 s TANTAL 10uF 10% 6.3V
 C544 1-135-136-21 s TANTALUM 6.8uF 10% 35V
 C545 1-164-148-11 s CERAMIC, CHIP 0.0082uF 10% 50V

C546 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V
 C547 1-163-088-00 s CERAMIC, CHIP 5PF 50V
 C548 1-164-147-11 s CERAMIC, CHIP 0.0047uF 10% 50V
 C549 1-136-160-00 s FILM 0.039uF 5% 50V
 C551 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V

C552 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C553 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C554 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C557 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V
 C558 1-135-157-21 s TANTAL 10uF 10% 6.3V

C559 1-135-136-21 s TANTALUM 6.8uF 10% 35V
 C560 1-164-148-11 s CERAMIC, CHIP 0.0082uF 10% 50V
 C561 1-163-088-00 s CERAMIC, CHIP 5PF 50V
 C562 1-164-147-11 s CERAMIC, CHIP 0.0047uF 10% 50V
 C565 1-136-160-00 s FILM 0.039uF 5% 50V

C566 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V
 C567 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V
 C568 1-126-390-11 s ELECT, CHIP 22uF 20% 6.3V

CN1 1-566-960-11 o CONNECTOR, 50P, MALE
 CN2 1-566-388-11 s CONNECTOR, 8P, MALE

CNJ2 1-565-413-11 o PLUG, SHORTING

CV1 1-141-369-52 s CAP, CHIP TRIMMER

(AFM-6P BOARD)

Ref.No.

or Q'ty Parts No. SP Description

CV2 1-141-369-52 s CAP, CHIP TRIMMER
 CV3 1-141-369-52 s CAP, CHIP TRIMMER
 CV4 1-141-369-52 s CAP, CHIP TRIMMER
 CV101 1-141-369-52 s CAP, CHIP TRIMMER
 CV102 1-141-369-52 s CAP, CHIP TRIMMER

CV103 1-141-369-52 s CAP, CHIP TRIMMER
 CV104 1-141-369-52 s CAP, CHIP TRIMMER

D201 8-719-800-76 s DIODE 1SS226
 D402 8-719-800-76 s DIODE 1SS226
 D501 8-719-800-76 s DIODE 1SS226
 D502 8-719-800-76 s DIODE 1SS226
 D503 8-719-800-76 s DIODE 1SS226

D504 8-719-800-76 s DIODE 1SS226
 D505 8-719-400-18 s DIODE MA152WK
 D506 8-719-104-34 s DIODE 1S2836

FL1 1-236-019-11 s FILTER, LOW-PASS

IC1 8-741-152-44 s IC SBX1524-52
 IC2 8-759-209-15 s IC TC4SU69F
 IC3 8-759-209-15 s IC TC4SU69F
 IC4 8-759-209-15 s IC TC4SU69F
 IC401 8-759-100-94 s IC UPC358G2

IC501 1-236-003-11 s FILTER, LOW-PASS
 IC502 8-752-009-90 s IC CX20099
 IC503 8-759-403-92 s IC AN6391NS
 IC504 8-759-403-92 s IC AN6391NS
 IC505 8-759-209-15 s IC TC4SU69F

IC506 8-759-700-38 s IC NJM4559M
 IC507 8-759-700-38 s IC NJM4559M
 IC601 8-759-100-96 s IC UPC4558G2

L1 1-410-393-11 s INDUCTOR CHIP 100uH
 L2 1-410-393-11 s INDUCTOR CHIP 100uH
 L3 1-410-658-31 s INDUCTOR CHIP 220uH
 L4 1-410-381-11 s INDUCTOR CHIP 10uH
 L5 1-410-389-31 s INDUCTOR CHIP 47uH

L6 1-408-779-31 s INDUCTOR CHIP 15uH
 L101 1-410-393-11 s INDUCTOR CHIP 100uH
 L102 1-410-393-11 s INDUCTOR CHIP 100uH

Q1 8-729-905-12 s TRANSISTOR DTA144EU
 Q2 8-729-905-18 s TRANSISTOR DTC144EU
 Q3 8-729-905-18 s TRANSISTOR DTC144EU
 Q4 8-729-117-32 s TRANSISTOR 2SC4177
 Q5 8-729-117-32 s TRANSISTOR 2SC4177

Q6 8-729-117-16 s TRANSISTOR 2SA1611-M6
 Q7 8-729-117-72 s TRANSISTOR 2SC4178
 Q8 8-729-117-16 s TRANSISTOR 2SA1611-M6
 Q9 8-729-117-72 s TRANSISTOR 2SC4178
 Q101 8-729-117-72 s TRANSISTOR 2SC4178

Q102 8-729-905-12 s TRANSISTOR DTA144EU
 Q103 8-729-117-72 s TRANSISTOR 2SC4178
 Q104 8-729-117-72 s TRANSISTOR 2SC4178
 Q105 8-729-117-72 s TRANSISTOR 2SC4178
 Q106 8-729-117-72 s TRANSISTOR 2SC4178

Q107 8-729-117-72 s TRANSISTOR 2SC4178
 Q108 8-729-117-72 s TRANSISTOR 2SC4178
 Q109 8-729-109-44 s TRANSISTOR 2SK94
 Q110 8-729-109-44 s TRANSISTOR 2SK94
 Q111 8-729-109-44 s TRANSISTOR 2SK94

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AFM-6P BOARD)

Ref.No. or Q'ty	Parts No.	SP Description
Q112	8-729-109-44 s	TRANSISTOR 2SK94
Q113	8-729-117-72 s	TRANSISTOR 2SC4178
Q115	8-729-905-12 s	TRANSISTOR DTA144EU
Q121	8-729-109-44 s	TRANSISTOR 2SK94
Q122	8-729-109-44 s	TRANSISTOR 2SK94
Q123	8-729-109-44 s	TRANSISTOR 2SK94
Q124	8-729-109-44 s	TRANSISTOR 2SK94
Q155	8-729-117-32 s	TRANSISTOR 2SC4177
Q156	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q157	8-729-117-32 s	TRANSISTOR 2SC4177
Q158	8-729-109-44 s	TRANSISTOR 2SK94
Q159	8-729-109-44 s	TRANSISTOR 2SK94
Q160	8-729-109-44 s	TRANSISTOR 2SK94
Q161	8-729-109-44 s	TRANSISTOR 2SK94
Q170	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q201	8-729-106-68 s	TRANSISTOR 2SC1615A-GP
Q202	8-729-106-68 s	TRANSISTOR 2SC1615A-GP
Q401	8-729-807-50 s	TRANSISTOR 2SD1623
Q402	8-729-905-18 s	TRANSISTOR DTC144EU
Q501	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q502	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q503	8-729-209-07 s	TRANSISTOR 2SC4213-B
R1	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R2	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R3	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R4	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R5	1-216-828-11 s	METAL, CHIP 3.9K 5% 1/16W
R6	1-216-835-11 s	METAL, CHIP 15K 5% 1/16W
R7	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R8	1-216-680-11 s	METAL, CHIP 16K 0.5% 1/10W
R10	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R11	1-216-828-11 s	METAL, CHIP 3.9K 5% 1/16W
R12	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R13	1-216-835-11 s	METAL, CHIP 15K 5% 1/16W
R14	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R15	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R16	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R17	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
R18	1-216-824-11 s	METAL, CHIP 1.8K 5% 1/16W
R19	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R20	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R21	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R22	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R23	1-216-838-11 s	METAL, CHIP 27K 5% 1/16W
R24	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R25	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R26	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R27	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W
R28	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R29	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R32	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R33	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R101	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R102	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R103	1-218-288-11 s	METAL, CHIP 300 5% 1/16W
R104	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R105	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R106	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W

(AFM-6P BOARD)

Ref.No. or Q'ty	Parts No.	SP Description
R107	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R108	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R109	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R110	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R111	1-216-805-11 s	METAL, CHIP 47 5% 1/16W
R112	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R113	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R114	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R116	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R117	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R118	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R119	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R120	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R121	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R122	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R123	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R124	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R126	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R127	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R128	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R129	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R130	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R131	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R132	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R133	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R134	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R135	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R136	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R139	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R140	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R141	1-216-814-11 s	METAL, CHIP 270 5% 1/16W
R142	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R143	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R144	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R145	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R146	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R147	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R148	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R149	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R150	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R151	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R152	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
R153	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
R154	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R155	1-216-789-11 s	METAL, CHIP 2.2 5% 1/16W
R156	1-216-789-11 s	METAL, CHIP 2.2 5% 1/16W
R157	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R158	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R159	1-216-789-11 s	METAL, CHIP 2.2 5% 1/16W
R160	1-216-789-11 s	METAL, CHIP 2.2 5% 1/16W
R161	1-216-864-11 s	METAL, CHIP 0-OHM
R162	1-216-864-11 s	METAL, CHIP 0-OHM
R163	1-216-815-11 s	METAL, CHIP 330 5% 1/16W
R164	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R165	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R201	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R202	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R203	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R205	1-216-820-11 s	METAL, CHIP 820 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AFM-6P BOARD)

Ref.No. or Q' ty	Parts No.	SP Description
R206	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R401	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R402	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R403	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R404	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R405	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R406	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R503	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R504	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R505	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R506	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R507	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R508	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R509	1-218-302-11 s	METAL CHIP 8.2K 1% 1/16W
R510	1-218-301-11 s	METAL CHIP 3.9K 1% 1/16W
R511	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R512	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R517	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R518	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R541	1-218-300-11 s	METAL, CHIP 3.3K 1% 1/16W
R542	1-218-299-11 s	METAL, CHIP 2.7K 1% 1/16W
R543	1-218-300-11 s	METAL, CHIP 3.3K 1% 1/16W
R544	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R546	1-218-301-11 s	METAL CHIP 3.9K 1% 1/16W
R547	1-218-304-11 s	METAL CHIP 12K 1% 1/16W
R548	1-218-297-11 s	METAL, CHIP 680 1% 1/16W
R549	1-218-298-11 s	METAL, CHIP 2.2K 1% 1/16W
R550	1-218-299-11 s	METAL, CHIP 2.7K 1% 1/16W
R551	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R552	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R553	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R554	1-218-299-11 s	METAL, CHIP 2.7K 1% 1/16W
R555	1-218-300-11 s	METAL, CHIP 3.3K 1% 1/16W
R556	1-218-300-11 s	METAL, CHIP 3.3K 1% 1/16W
R557	1-218-304-11 s	METAL CHIP 12K 1% 1/16W
R558	1-218-301-11 s	METAL CHIP 3.9K 1% 1/16W
R560	1-218-298-11 s	METAL, CHIP 2.2K 1% 1/16W
R561	1-218-297-11 s	METAL, CHIP 680 1% 1/16W
R562	1-218-299-11 s	METAL, CHIP 2.7K 1% 1/16W
R563	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R564	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R565	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R572	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R573	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R574	1-216-848-11 s	METAL, CHIP 180K 5% 1/16W
R575	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R576	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R577	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R578	1-218-318-11 s	METAL, CHIP 5.6K 1% 1/16W
R579	1-218-304-11 s	METAL CHIP 12K 1% 1/16W
R580	1-218-298-11 s	METAL, CHIP 2.2K 1% 1/16W
R581	1-218-322-11 s	METAL, CHIP 47K 1% 1/16W
R582	1-218-322-11 s	METAL, CHIP 47K 1% 1/16W
R583	1-218-315-11 s	METAL, CHIP 1K 1% 1/16W
R584	1-218-303-11 s	METAL, CHIP 10K 1% 1/16W
R585	1-218-318-11 s	METAL, CHIP 5.6K 1% 1/16W
R586	1-218-304-11 s	METAL CHIP 12K 1% 1/16W
R587	1-218-298-11 s	METAL, CHIP 2.2K 1% 1/16W
R588	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W

(AFM-6P BOARD)

Ref.No. or Q' ty	Parts No.	SP Description
R589	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R590	1-218-315-11 s	METAL, CHIP 1K 1% 1/16W
R591	1-218-303-11 s	METAL, CHIP 10K 1% 1/16W
R601	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R602	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R603	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R604	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R605	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R606	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R607	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R608	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
RV1	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV2	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV3	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV4	1-230-874-11 s	RES, ADJ, METAL 100K
RV5	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV6	1-237-034-11 s	RES, ADJ, METAL 2K
RV7	1-237-036-11 s	RES, ADJ, METAL 10K
RV8	1-230-871-11 s	RES, ADJ, METAL 22K
RV10	1-237-032-11 s	RES, ADJ, METAL 500
RV101	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV102	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV103	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV104	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV107	1-230-866-11 s	RES, ADJ, METAL 470
RV501	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV502	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV503	1-237-034-11 s	RES, ADJ, METAL 2K
RV504	1-237-034-11 s	RES, ADJ, METAL 2K
RV505	1-230-869-11 s	RES, ADJ, METAL 4.7K
TH501	1-808-565-21 s	THERMISTOR
TH502	1-808-565-21 s	THERMISTOR

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

AT-49A BOARD (Serial No.41954 through 43999)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-944-A	o MOUNTED CIRCUIT BOARD, AT-49A
3pcs	3-621-124-00	o SPACER
1pc	3-724-713-01	o PLATE (AT-49), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C2	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C4	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C6	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C7	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C9	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C15	1-163-251-11	s CERAMIC 100PF 5% 50V
C16	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C19	1-135-097-21	s TANTALUM, CHIP 15uF 10% 10V
C20	1-163-235-11	s CERAMIC 22PF 5% 50V
C21	1-127-558-11	s ELECT (SOLID) 10uF 20% 10V
C23	1-163-235-11	s CERAMIC 22PF 5% 50V
C24	1-127-558-11	s ELECT (SOLID) 10uF 20% 10V
C28	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C31	1-135-097-21	s TANTALUM, CHIP 15uF 10% 10V
C38	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C39	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C40	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C41	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C42	1-131-388-00	s TANTALUM, 68uF 10% 6.3V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-104-34	s DIODE 1S2836
D2	8-719-104-34	s DIODE 1S2836
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-104-34	s DIODE 1S2836
IC1	1-807-412-12	s IC BH-1219A
IC2	1-807-413-11	s IC BH-1220
IC3	1-807-414-11	s IC BH-1221
IC4	8-759-200-79	s IC TC4049BF
IC5	8-759-906-54	s IC TL064CNS
IC6	8-759-009-05	s IC MC14051BF
IC7	8-759-101-12	s IC UPC311G2
IC8	8-759-918-65	s IC TL7700CPS
IC9	8-759-204-79	s IC TC40H241F
IC10	8-759-109-70	s IC UPC4560G2
IC11	8-759-400-89	s IC MN1237AD
IC12	8-741-100-58	s IC BX-1179A
IC13	8-759-906-53	s IC TL062CPS
IC14	8-759-321-94	s IC HD6305Y0D67P
IC16	8-759-906-53	s IC TL062CPS
IC17	8-752-330-59	s IC CXK1011P
Q1	8-729-216-22	s TRANSISTOR 2SA1162
Q2	8-729-109-44	s TRANSISTOR 2SK94
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-216-22	s TRANSISTOR 2SA1162
R24	1-216-041-00	s METAL, CHIP 470 5% 1/10W
R52	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R72	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R73	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W

(AT-49A BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R94	1-216-090-00	s METAL CHIP 51K 5% 1/10W
RB1	1-235-813-11	s COMPOSITION CIRCUIT BLOCK
RB2	1-235-813-11	s COMPOSITION CIRCUIT BLOCK
RB3	1-231-387-00	s COMPOSITION CIRCUIT BLOCK
RV1	1-241-447-21	s RES, ADJ, METAL 5K
RV2	1-228-474-00	s RES, ADJ, METAL 10K
RV4	1-237-035-11	s RES, ADJ, METAL 5K
S1	1-570-598-11	o SWITCH, DIP 4-CKT
S2	1-570-857-11	s SWITCH, SLIDE
X1	1-567-192-11	s RESONATOR, CERAMIC 4.00MHz

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

AT-49C BOARD (Serial No.44001 and higher)

(AT-49C BOARD)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8274-904-A	o MOUNTED CIRCUIT BOARD, AT-49C
1pc	3-724-713-01	o PLATE (AT-49), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
8pcs	3-621-124-00	o SPACER
C2	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C4	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C6	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C7	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C9	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C15	1-163-251-11	s CERAMIC 100PF 5% 50V
C16	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C19	1-135-160-21	s TANTALUM, CHIP 15uF 10% 16V
C20	1-163-235-11	s CERAMIC 22PF 5% 50V
C21	1-127-558-11	s ELECT (SOLID) 10uF 20% 10V
C23	1-163-235-11	s CERAMIC 22PF 5% 50V
C24	1-127-558-11	s ELECT (SOLID) 10uF 20% 10V
C25	1-163-239-11	s CERAMIC 33PF 5% 50V
C26	1-163-239-11	s CERAMIC 33PF 5% 50V
C28	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C31	1-135-160-21	s TANTALUM, CHIP 15uF 10% 16V
C38	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C39	1-135-214-21	s TANTAL CHIP 4.7uF 10% 20V
C40	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C41	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C43	1-135-227-11	s TANTAL CHIP 100uF 20% 6.3V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-104-34	s DIODE 1S2836
D2	8-719-104-34	s DIODE 1S2836
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-104-34	s DIODE 1S2836
IC1	1-807-412-12	s IC BH-1219A
IC2	1-807-413-11	s IC BH-1220
IC3	1-807-414-11	s IC BH-1221
IC4	8-759-200-79	s IC TC4049BF
IC5	8-759-906-54	s IC TL064CNS
IC6	8-759-009-05	s IC MC14051BF
IC7	8-759-101-12	s IC UPC311G2
IC8	8-759-918-65	s IC TL7700CPS
IC9	8-759-204-79	s IC TC40H241F
IC10	8-759-109-70	s IC UPC4560G2
IC11	8-759-400-89	s IC MN1237AD
IC12	8-741-100-58	s IC BX-1179A
IC13	8-759-906-53	s IC TL062CPS
IC14	8-759-347-10	s IC HD6305Y0F20P
IC16	8-759-906-53	s IC TL062CPS
IC17	8-752-330-59	s IC CXK1011P
Q1	8-729-216-22	s TRANSISTOR 2SA1162
Q2	8-729-109-44	s TRANSISTOR 2SK94
Q3	8-729-120-28	s TRANSISTOR 2SC1623
Q4	8-729-120-28	s TRANSISTOR 2SC1623
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-216-22	s TRANSISTOR 2SA1162

Ref. No. or Q'ty	Part No.	SP Description
R48	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R49	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R52	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R72	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R73	1-208-812-11	s METAL, CHIP 18K 0.5% 1/10W
R94	1-208-823-11	s METAL CHIP 51K 5% 1/10W
R100	1-249-388-11	s CARBON, 3.9 5% 1/4W
RB1	1-235-813-11	s COMPOSITION CIRCUIT BLOCK
RB2	1-235-813-11	s COMPOSITION CIRCUIT BLOCK
RB3	1-231-387-00	s COMPOSITION CIRCUIT BLOCK
RV1	1-237-035-11	s RES, ADJ, METAL 5K
RV2	1-228-474-00	s RES, ADJ, METAL 10K
RV4	1-237-035-11	s RES, ADJ, METAL 5K
S1	1-570-598-11	o SWITCH, DIP 4-CKT
S2	1-570-857-11	s SWITCH, SLIDE
X1	1-567-192-11	s RESONATOR, CERAMIC 4.00MHZ

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

AU-97P BOARD

Ref. No.

or Q'ty Part No. SP Description

1pc	A-6713-351-A	o MOUNTED CIRCUIT BOARD, AU-97P
1pc	3-724-704-01	o PLATE (AU-97), ORNAMENTAL
1pc	3-724-753-01	o RING
1pc	3-729-031-01	o CASE (AU-1), SHIELD
1pc	3-729-032-03	o CASE (AU-2), SHIELD
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C2	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C3	1-126-101-11	s ELECT 100uF 20% 16V
C5	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C6	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C7	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C8	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C9	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C10	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C14	1-124-478-11	s ELECT 100uF 20% 25V
C16	1-127-495-00	s ELECT (SOLID) 4.7uF 20% 16V
C18	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C32	1-163-263-11	s CERAMIC 330PF 5% 50V
C34	1-109-631-00	s MICA 330PF 2% 500V
C102	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C103	1-135-070-00	s TANTALUM, CHIP 0.1uF 10% 35V
C104	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C105	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C106	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C111	1-163-227-11	s CERAMIC 10PF 5% 50V
C113	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C114	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C121	1-163-227-11	s CERAMIC 10PF 5% 50V
C122	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C123	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C124	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C131	1-163-018-00	s CERAMIC, CHIP 0.0056uF 5% 50V
C132	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V
C134	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C136	1-163-251-11	s CERAMIC 100PF 5% 50V
C138	1-109-631-00	s MICA 330PF 2% 500V
C202	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C203	1-135-070-00	s TANTALUM, CHIP 0.1uF 10% 35V
C204	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C211	1-163-227-11	s CERAMIC 10PF 5% 50V
C213	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C214	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C221	1-163-227-11	s CERAMIC 10PF 5% 50V
C222	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C223	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C224	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C231	1-163-018-00	s CERAMIC, CHIP 0.0056uF 5% 50V
C232	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V
C234	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C236	1-163-251-11	s CERAMIC 100PF 5% 50V
C238	1-109-631-00	s MICA 330PF 2% 500V
C304	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C306	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C308	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C309	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C404	1-126-394-11	s ELECT, CHIP 10uF 20% 16V

(AU-97P BOARD)

Ref. No.

or Q'ty Part No. SP Description

C406	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C408	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C409	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CT1	1-459-865-11	s COIL, VAR 3.4mH
CV131	1-141-393-11	s CAP, TRIMMER 100PF
CV231	1-141-393-11	s CAP, TRIMMER 100PF
D1	8-719-941-86	s DIODE DAN202U
D101	8-719-941-23	s DIODE DA204U
D201	8-719-941-23	s DIODE DA204U
IC1	8-757-991-00	s IC CX-7991
IC2	8-759-095-59	s IC M5237ML
IC102	8-741-148-90	s IC SBX1489-01
IC111	8-759-702-06	s IC NJM064M
IC112	8-759-300-71	s IC MC14053BF
IC131	8-759-702-02	s IC NJM062M
IC211	8-759-702-06	s IC NJM064M
IC301	8-759-981-58	s IC RC2043MD
IC302	8-759-300-71	s IC MC14053BF
IC401	8-759-981-58	s IC RC2043MD
L1	1-408-429-00	s INDUCTOR 470uH
L3	1-412-279-31	s INDUCTOR 270uH
L4	1-412-279-31	s INDUCTOR 270uH
L5	1-412-279-31	s INDUCTOR 270uH
L6	1-408-421-00	s INDUCTOR 100uH
LV111	1-410-854-12	s COIL, VAR 18mH
LV121	1-410-854-12	s COIL, VAR 18mH
LV131	1-410-853-12	s COIL, VAR 4.5mH
LV211	1-410-854-12	s COIL, VAR 18mH
LV221	1-410-854-12	s COIL, VAR 18mH
LV231	1-410-853-12	s COIL, VAR 4.5mH
Q1	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-905-18	s TRANSISTOR DTC144EU
Q4	8-729-905-12	s TRANSISTOR DTA144EU
Q8	8-729-905-12	s TRANSISTOR DTA144EU
Q9	8-729-159-64	s TRANSISTOR 2SD596
Q10	8-729-159-64	s TRANSISTOR 2SD596
Q11	8-729-905-12	s TRANSISTOR DTA144EU
Q12	8-729-159-64	s TRANSISTOR 2SD596
Q13	8-729-159-64	s TRANSISTOR 2SD596
Q14	8-729-209-07	s TRANSISTOR 2SC4213-B
Q15	8-729-209-07	s TRANSISTOR 2SC4213-B
Q16	8-729-901-46	s TRANSISTOR DTA114YK
Q17	8-729-905-18	s TRANSISTOR DTC144EU
Q18	8-729-101-07	s TRANSISTOR 2SB798
Q131	8-729-209-07	s TRANSISTOR 2SC4213-B
Q132	8-729-209-07	s TRANSISTOR 2SC4213-B
Q231	8-729-209-07	s TRANSISTOR 2SC4213-B
Q232	8-729-209-07	s TRANSISTOR 2SC4213-B
Q301	8-729-209-07	s TRANSISTOR 2SC4213-B
Q302	8-729-209-07	s TRANSISTOR 2SC4213-B
Q303	8-729-220-93	s TRANSISTOR 2SK209-G
Q304	8-729-905-18	s TRANSISTOR DTC144EU
Q401	8-729-209-07	s TRANSISTOR 2SC4213-B
Q402	8-729-209-07	s TRANSISTOR 2SC4213-B

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AU-97P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
Q403	8-729-220-93	s TRANSISTOR 2SK209-G
Q404	8-729-905-18	s TRANSISTOR DTC144EU
Q405	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R2	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R3	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R4	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R5	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R6	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R7	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R8	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R12	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R13	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R16	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R17	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R18	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R22	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R23	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R25	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R26	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R30	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R31	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R32	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R33	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R34	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R35	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R36	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R37	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R38	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R39	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R40	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R111	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R112	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R113	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R114	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R115	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R116	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R117	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R118	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R120	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R121	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R123	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R124	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R125	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R126	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R127	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R128	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R129	1-216-842-11	s METAL, CHIP 56K 5% 1/16W
R131	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R132	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R133	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R134	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R135	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R136	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R137	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R138	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R139	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R140	1-216-833-11	s METAL, CHIP 10K 5% 1/16W

(AU-97P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
R141	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R142	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R143	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R211	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R212	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R213	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R214	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R215	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R216	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R217	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R218	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R220	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R221	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R223	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R224	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R225	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R226	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R227	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R228	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R229	1-216-842-11	s METAL, CHIP 56K 5% 1/16W
R231	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R232	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R233	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R234	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R235	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R236	1-218-304-11	s METAL CHIP 12K 1% 1/16W
R237	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R238	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R239	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R240	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R241	1-216-835-11	s METAL, CHIP 15K 5% 1/16W
R242	1-216-844-11	s METAL, CHIP 82K 5% 1/16W
R243	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R301	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R302	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R303	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R304	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R305	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R306	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R307	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R308	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R309	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R310	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R311	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R312	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R314	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R315	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R316	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R317	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R318	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R319	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R320	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R321	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R401	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R402	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R403	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R404	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R405	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R406	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(AU-97P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R407	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W
R408	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R409	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R410	1-216-685-11 s	METAL, CHIP 27K 0.5% 1/10W
R411	1-216-665-11 s	METAL, CHIP 3.9K 0.5% 1/10W
R412	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R413	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R414	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R415	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R416	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R417	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R418	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R419	1-216-813-11 s	METAL, CHIP 220 5% 1/16W
RV1	1-237-031-11 s	RES, ADJ, METAL 200
RV2	1-237-032-11 s	RES, ADJ, METAL 500
RV101	1-237-036-11 s	RES, ADJ, METAL 10K
RV111	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV112	1-237-037-11 s	RES, ADJ, METAL 20K
RV113	1-237-036-11 s	RES, ADJ, METAL 10K
RV121	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV122	1-237-037-11 s	RES, ADJ, METAL 20K
RV123	1-237-036-11 s	RES, ADJ, METAL 10K
RV201	1-237-036-11 s	RES, ADJ, METAL 10K
RV211	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV212	1-237-037-11 s	RES, ADJ, METAL 20K
RV221	1-230-869-11 s	RES, ADJ, METAL 4.7K
RV222	1-237-037-11 s	RES, ADJ, METAL 20K
RV301	1-237-032-11 s	RES, ADJ, METAL 500
RV302	1-237-035-11 s	RES, ADJ, METAL 5K
RV303	1-237-036-11 s	RES, ADJ, METAL 10K
RV401	1-237-032-11 s	RES, ADJ, METAL 500
RV402	1-237-035-11 s	RES, ADJ, METAL 5K
RV403	1-237-036-11 s	RES, ADJ, METAL 10K

BI-22 BOARD

Ref. No. or Q'ty	Part No.	SP Description
C7	1-163-263-11 s	CERAMIC 330PF 5% 50V
CN1	1-562-735-11 o 1-562-746-11 o	HOUSING, 2P HOUSING, CONNECTOR 13P
CN2	1-562-147-11 s	HOUSING, 2P
D1	8-719-104-34 s	DIODE 1S2836
D2	8-719-104-34 s	DIODE 1S2836
D3	8-719-104-34 s	DIODE 1S2836
D4	8-719-104-34 s	DIODE 1S2836
D5	8-719-104-34 s	DIODE 1S2836
Q1	8-729-101-25 s	TRANSISTOR 2SC1009A
Q2	8-729-802-45 s	TRANSISTOR 2SK125-5
R12	1-216-092-00 s	METAL, CHIP 62K 5%

BI-23 BOARD

Ref. No. or Q'ty	Part No.	SP Description
C1	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C2	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C3	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C5	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C6	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C7	1-163-263-11 s	CERAMIC 330PF 5% 50V
C10	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C13	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C14	1-135-154-21 s	TANTAL 3.3uF 20% 20V
CN1	1-562-735-11 o 1-562-746-11 o	HOUSING, 2P HOUSING, CONNECTOR 13P
CN2	1-562-147-11 s	HOUSING, 2P
D1	8-719-104-34 s	DIODE 1S2836
D2	8-719-104-34 s	DIODE 1S2836
D3	8-719-104-34 s	DIODE 1S2836
D4	8-719-104-34 s	DIODE 1S2836
D5	8-719-104-34 s	DIODE 1S2836
Q1	8-729-101-25 s	TRANSISTOR 2SC1009A
Q2	8-729-802-45 s	TRANSISTOR 2SK125-5
R12	1-216-086-00 s	METAL, CHIP 36K 5%

BI-24 BOARD

Ref. No. or Q'ty	Part No.	SP Description
C1	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C2	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C3	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C5	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C6	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C7	1-163-263-11 s	CERAMIC 330PF 5% 50V
C10	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C13	1-135-154-21 s	TANTAL 3.3uF 20% 20V
C14	1-135-154-21 s	TANTAL 3.3uF 20% 20V
CN1	1-562-735-11 o 1-562-746-11 o	HOUSING, 2P HOUSING, CONNECTOR 13P
CN2	1-562-147-11 s	HOUSING, 2P
D1	8-719-104-34 s	DIODE 1S2836
D2	8-719-104-34 s	DIODE 1S2836
D3	8-719-104-34 s	DIODE 1S2836
D4	8-719-104-34 s	DIODE 1S2836
D5	8-719-104-34 s	DIODE 1S2836
Q1	8-729-101-25 s	TRANSISTOR 2SC1009A
Q2	8-729-802-45 s	TRANSISTOR 2SK125-5
R12	1-216-086-00 s	METAL, CHIP 36K 5%

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

CN-400 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-634-967-11	o PRINTED CIRCUIT BOARD, CN-400
CN1	1-565-146-11	o PIN, CONNECTOR (STRAIGHT) 13P
CN3	1-565-144-11	o CONNECTOR, 11P, MALE
CN4	1-565-142-11	o PIN, CONNECTOR (STRAIGHT) 9P

CN-771 BOARD (Serial No. 44001 and higher)

Ref. No. or Q' ty	Part No.	SP Description
2pcs	1-565-164-11	o CONTACT, FEMALE, AWG26-28
10pcs	1-566-987-11	o CONTACT, AWG28-32
8pcs	1-580-599-11	o CONTACT, FEMALE, AWG26-30
1pc	1-643-707-12	o PRINTED CIRCUIT BOARD, CN-771
1pc	3-177-365-01	o SHEET (CN), INSULATING
1pc	3-742-205-02	o BRACKET, CN
2pcs	7-627-553-47	s SCREW, PRECISION +P 2X4
C1	1-135-160-21	s TANTAL 15uF 10% 16V
CN1	1-580-581-11	o HOUSING, 10P
CN2	1-565-121-11	o HOUSING, CONNECTOR 2P
CN11	1-580-564-11	o PIN, CONNECTOR (PC BOARD) 18P
CN12	1-565-142-11	o PIN, CONNECTOR (STRAIGHT) 9P
CN13	1-565-151-11	o CONNECTOR, 4P, MALE
CN14	1-565-151-11	o CONNECTOR, 4P, MALE
JR1	1-217-666-11	s RES, SHORTING 0.01 1/6W
Q1	8-729-923-77	s TRANSISTOR DTA114WK
Q2	8-729-923-77	s TRANSISTOR DTA114WK
R1	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R2	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R3	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R4	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
W12	1-568-815-11	o HOUSING, 9P
W15	1-566-988-11	o HOUSING, CONNECTOR 2P

DR-84 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-7513-942-A	o MOUNTED CIRCUIT BOARD, DR-84
C2	1-163-235-11	s CERAMIC 22PF 5% 50V
C48	1-124-360-00	s ELECT 1000uF 20% 16V
C69	1-124-122-11	s ELECT 100 20% 50V
C72	1-135-152-21	s TANTAL 1.5uF 10% 25V
CN1	1-506-472-11	o CONNECTOR, 7P, MALE
CN2	1-563-238-11	o CONNECTOR, 15P, FEMALE
CN3	1-563-292-11	o CONNECTOR, 30P, FEMALE
D1	8-719-104-34	s DIODE 1S2836
D2	8-719-104-34	s DIODE 1S2836
D3	8-719-400-18	s DIODE MA152WK
D4	8-719-400-18	s DIODE MA152WK
D5	8-719-400-18	s DIODE MA152WK
D6	8-719-400-18	s DIODE MA152WK
D7	8-719-400-18	s DIODE MA152WK
D8	8-719-400-18	s DIODE MA152WK
D9	8-719-400-18	s DIODE MA152WK
D10	8-719-800-76	s DIODE 1SS226
D11	8-719-104-34	s DIODE 1S2836
D12	8-719-104-34	s DIODE 1S2836
D13	8-719-104-34	s DIODE 1S2836
D14	8-719-104-34	s DIODE 1S2836
D15	8-719-400-18	s DIODE MA152WK
D16	8-719-400-18	s DIODE MA152WK
D17	8-719-104-34	s DIODE 1S2836
D18	8-719-104-34	s DIODE 1S2836
D19	8-719-104-34	s DIODE 1S2836
D20	8-719-104-34	s DIODE 1S2836
D21	8-719-400-18	s DIODE MA152WK
D22	8-719-400-18	s DIODE MA152WK
D23	8-719-400-18	s DIODE MA152WK
D24	8-719-800-76	s DIODE 1SS226
IC1	8-752-031-03	s IC CXA1065M
IC2	8-752-031-03	s IC CXA1065M
IC3	8-752-031-03	s IC CXA1065M
IC4	8-759-979-69	s IC TSC426C0A
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-101-00	s TRANSISTOR NTM2369
Q3	8-729-112-65	s TRANSISTOR 2SA1462
Q4	8-729-112-65	s TRANSISTOR 2SA1462
Q5	8-729-101-00	s TRANSISTOR NTM2369
Q6	8-729-100-66	s TRANSISTOR 2SC1623
Q7	8-729-216-22	s TRANSISTOR 2SA1162
Q8	8-729-100-66	s TRANSISTOR 2SC1623
Q9	8-729-100-66	s TRANSISTOR 2SC1623
Q10	8-729-216-22	s TRANSISTOR 2SA1162
Q11	8-729-216-22	s TRANSISTOR 2SA1162
Q12	8-729-802-45	s TRANSISTOR 2SK125-5
Q13	8-729-100-66	s TRANSISTOR 2SC1623
Q14	8-729-100-66	s TRANSISTOR 2SC1623
Q15	8-729-100-66	s TRANSISTOR 2SC1623
Q16	8-729-100-66	s TRANSISTOR 2SC1623
Q17	8-729-100-66	s TRANSISTOR 2SC1623
Q18	8-729-100-66	s TRANSISTOR 2SC1623
Q19	8-729-100-66	s TRANSISTOR 2SC1623
Q20	8-729-100-66	s TRANSISTOR 2SC1623
Q21	8-729-100-66	s TRANSISTOR 2SC1623

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(DR-84 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R25	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R26	1-216-695-11	s METAL, CHIP 68K 0.5% 1/10W
RV1	1-237-037-11	s RES, ADJ, METAL 20K
RV2	1-237-037-11	s RES, ADJ, METAL 20K
RV3	1-237-037-11	s RES, ADJ, METAL 20K

DUS-246 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-969-11	o PRINTED CIRCUIT BOARD, DUS-246

DUS-297 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-124-440-11	s ELECT 3300uF 20% 25V

EN-79P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-961-A	o MOUNTED CIRCUIT BOARD, EN-79P
10pcs	3-621-124-00	o SPACER
1pc	3-724-709-01	o PLATE (EN-62), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C4	1-163-086-00	s CERAMIC, CHIP 3PF 50V
C5	1-163-086-00	s CERAMIC, CHIP 3PF 50V
C6	1-163-086-00	s CERAMIC, CHIP 3PF 50V
C9	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C11	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C13	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C15	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C17	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C22	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C24	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C25	1-135-157-21	s TANTAL 10uF 10% 6.3V
C26	1-135-157-21	s TANTAL 10uF 10% 6.3V
C27	1-163-251-11	s CERAMIC 100PF 5% 50V
C28	1-163-127-00	s CERAMIC, CHIP 270PF 5% 50V
C29	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C30	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C31	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C32	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C34	1-163-084-00	s CERAMIC, CHIP 1.5PF 50V
C35	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C36	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C39	1-163-251-11	s CERAMIC 100PF 5% 50V
C40	1-163-127-00	s CERAMIC, CHIP 270PF 5% 50V
C41	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C42	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C43	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C44	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C46	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C47	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C48	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C50	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C51	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C53	1-135-162-21	s TANTAL 33uF 10% 6.3V
C58	1-163-251-11	s CERAMIC 100PF 5% 50V
C59	1-163-115-00	s CERAMIC, CHIP 82PF 5% 50V
C62	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C63	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C64	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C68	1-135-158-21	s TANTALUM 15uF 10% 4V
C74	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C75	1-163-227-11	s CERAMIC 10PF 5% 50V
C76	1-163-227-11	s CERAMIC 10PF 5% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-347-11	s CAP, TRIMMER 10PF
DL1	1-415-562-11	s DELAY LINE 338ns
FL3	1-235-181-00	s FILTER, BANDPASS 4.43MHz
IC1	8-759-300-71	s IC MC14053BF
IC2	8-759-911-77	s IC CX-7968A

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(EN-79P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC3	1-807-421-11	s IC BH-1216
IC4	1-807-419-11	s IC BH-1214
IC5	1-807-418-11	s IC BH-1213
IC7	8-741-135-60	s IC BX-1356
IC8	8-759-906-59	s IC CX22017
IC9	8-759-200-79	s IC TC4049BF
IC10	1-807-423-11	s IC BH-1218
L1	1-408-785-21	s CHIP 47uH
L4	1-408-785-21	s CHIP 47uH
L5	1-410-715-31	s INDUCTOR, CHIP 68uH
L6	1-410-715-31	s INDUCTOR, CHIP 68uH
L7	1-408-785-21	s CHIP 47uH
LV2	1-408-844-00	s INDUCTOR, VAR, 22uH
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-100-66	s TRANSISTOR 2SC1623
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-216-22	s TRANSISTOR 2SA1162
Q5	8-729-100-66	s TRANSISTOR 2SC1623
Q10	8-729-100-66	s TRANSISTOR 2SC1623
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q13	8-729-122-63	s TRANSISTOR 2SA1226
Q14	8-729-100-66	s TRANSISTOR 2SC1623
Q15	8-729-216-22	s TRANSISTOR 2SA1162
Q18	8-729-100-66	s TRANSISTOR 2SC1623
Q19	8-729-100-66	s TRANSISTOR 2SC1623
Q20	8-729-100-66	s TRANSISTOR 2SC1623
Q21	8-729-122-63	s TRANSISTOR 2SA1226
Q22	8-729-100-66	s TRANSISTOR 2SC1623
Q23	8-729-100-66	s TRANSISTOR 2SC1623
Q24	8-729-100-66	s TRANSISTOR 2SC1623
Q25	8-729-100-66	s TRANSISTOR 2SC1623
Q26	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q27	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q28	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q29	8-729-159-64	s TRANSISTOR 2SD596
Q30	8-729-216-22	s TRANSISTOR 2SA1162
Q31	8-729-100-66	s TRANSISTOR 2SC1623
Q32	8-729-100-66	s TRANSISTOR 2SC1623
Q33	8-729-100-66	s TRANSISTOR 2SC1623
Q34	8-729-216-22	s TRANSISTOR 2SA1162
Q35	8-729-100-66	s TRANSISTOR 2SC1623
Q36	8-729-100-66	s TRANSISTOR 2SC1623
R17	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R18	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R19	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R20	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R21	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R22	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R26	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R27	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R28	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R34	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R35	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R36	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R37	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R38	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R43	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W

(EN-79P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R44	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R45	1-216-647-11	s METAL, CHIP 680 0.5% 1/10W
R46	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R51	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R60	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R64	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R69	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R71	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R75	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R76	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R77	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R78	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R79	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R83	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R84	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R85	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R88	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R89	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R90	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R91	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R99	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R102	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R105	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R106	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R107	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R113	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R114	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R121	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R122	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R129	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R135	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R141	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R143	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R144	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R145	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R148	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R149	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R152	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R157	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
RB1	1-239-024-11	s MATRIX RESISTOR
RB2	1-239-025-11	s MATRIX RESISTOR
RB3	1-239-026-11	s MATRIX RESISTOR
RV1	1-237-034-11	s RES, ADJ, METAL 2K
RV2	1-237-034-11	s RES, ADJ, METAL 2K
RV3	1-237-034-11	s RES, ADJ, METAL 2K
RV6	1-237-036-11	s RES, ADJ, METAL 10K
RV8	1-237-034-11	s RES, ADJ, METAL 2K
RV9	1-228-473-00	s RES, ADJ, METAL 5K
RV10	1-228-473-00	s RES, ADJ, METAL 5K
RV11	1-237-033-11	s RES, ADJ, METAL 1K
RV12	1-237-033-11	s RES, ADJ, METAL 1K
RV13	1-237-036-11	s RES, ADJ, METAL 10K
RV15	1-237-034-11	s RES, ADJ, METAL 2K
RV16	1-237-035-11	s RES, ADJ, METAL 5K
RV17	1-228-473-00	s RES, ADJ, METAL 5K
RV18	1-237-033-11	s RES, ADJ, METAL 1K
RV19	1-241-445-21	s RES, ADJ, METAL 1K
RV20	1-237-032-11	s RES, ADJ, METAL 500

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(EN-79P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV21	1-237-032-11	s RES, ADJ, METAL 500
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-375-12	s SWITCH, SLIDE

EX-148 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-314-A	o MOUNTED CIRCUIT BOARD, EX-148
4pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-961-11	o CONNECTOR, 50P, FEMALE

FE-4 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6725-603-A	o MOUNTED CIRCUIT BOARD, FE-4
1pc	3-722-419-01	o HOLDER, FE-4
2pcs	3-729-013-21	s SCREW(M1.4X2.5), WASHERHEAD(+P)
C1	1-136-562-11	s FILM 0.0082uF 5% 200V
C5	1-126-101-11	s ELECT 100uF 20% 16V
C8	1-163-018-00	s CERAMIC, CHIP 0.0056uF 5% 50V
C11	1-164-756-11	s CERAMIC, CHIP 0.0033uF 5% 50V
C12	1-164-756-11	s CERAMIC, CHIP 0.0033uF 5% 50V
C15	1-163-001-11	s CERAMIC 220PF 10% 50V
C16	1-126-157-11	s ELECT 10uF 20% 16V
CN1	1-566-977-11	o CONNECTOR, 12P, MALE
CP1	1-424-511-11	s TRANSFORMER, FE
CS1	1-810-462-11	s SENSOR, DEW CONDENSATION
IC1	8-759-805-32	s IC LA7205M
L1	1-464-909-11	s COIL, SENSOR
L2	1-408-429-00	s INDUCTOR 470uH
Q1	8-729-159-64	s TRANSISTOR 2SD596
Q2	8-729-159-64	s TRANSISTOR 2SD596
R3	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R4	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W

FL-45 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-891-13	s PRINTED CIRCUIT BOARD, FL-45 FLEXIB

FL-46 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-892-13	s PRINTED CIRCUIT BOARD, FL-46 FLEXIB

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

FL-55P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6713-349-A	o MOUNTED CIRCUIT BOARD, FL-55P
C1	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
C4	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C11	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
D1	8-719-941-09	s DIODE DAP202U
IC1	8-759-981-54	s IC RC2041MD
Q1	8-729-209-07	s TRANSISTOR 2SC4213-B
Q2	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q11	8-729-209-07	s TRANSISTOR 2SC4213-B
R1	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R11	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
RV1	1-228-478-11	s RES, ADJ, METAL 200K
RV11	1-228-478-11	s RES, ADJ, METAL 200K
RY1	1-515-614-21	s RELAY

FL-57 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-895-11	s PRINTED CIRCUIT BOARD, FL-57 FLEXIB Serial No. UP TO 42095
1pc	1-625-895-21	s PRINTED CIRCUIT BOARD, FL-57 FLEXIB Serial No. 42096 and higher

HP-43 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-562-148-11	s HOUSING, 3P
1pc	1-562-260-21	o CONTACT, FEMALE AWG24-28
1pc	1-627-593-11	o PRINTED CIRCUIT BOARD, HP-43
C1	1-162-773-11	s CERAMIC 0.0047uF 5% 50V
C2	1-162-773-11	s CERAMIC 0.0047uF 5% 50V
J1	1-507-980-21	s JACK
R1	1-249-395-11	s CARBON 15 5% 1/4W
R2	1-249-395-11	s CARBON 15 5% 1/4W

IE-30AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-313-A	o MOUNTED CIRCUIT BOARD, IE-30AP
2pcs	3-621-124-00	o SPACER
1pc	3-724-712-02	o PLATE (IE-20), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C2	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C3	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C5	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C7	1-124-282-00	s ELECT, NONPOLAR 22uF 20% 25V
C12	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C17	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C18	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C20	1-163-227-11	s CERAMIC 10PF 5% 50V
C21	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C26	1-163-227-11	s CERAMIC 10PF 5% 50V
C27	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C32	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C33	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C35	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C37	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C38	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C44	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C45	1-164-330-21	s CERAMIC 0.22uF 10% 16V
C47	1-135-145-11	s TANTALUM, CHIP 0.47uF 10% 35V
C48	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C49	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C50	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C51	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C52	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C53	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C55	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C57	1-163-251-11	s CERAMIC 100PF 5% 50V
C58	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C61	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C64	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C67	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C71	1-124-584-00	s ELECT 100uF 20% 10V
C72	1-163-116-00	s CERAMIC, CHIP 91PF 5% 50V
C75	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C76	1-163-081-00	s CERAMIC, CHIP 0.22uF 25V
C77	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C79	1-163-235-11	s CERAMIC 22PF 5% 50V
C82	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C89	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C93	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C96	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C97	1-124-584-00	s ELECT 100uF 20% 10V
C98	1-124-286-00	s ELECT 33uF 20% 10V
C99	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C100	1-163-235-11	s CERAMIC 22PF 5% 50V
C102	1-163-088-00	s CERAMIC, CHIP 5PF 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-370-11	s CAP, CHIP TRIMMER
CV2	1-141-311-11	s CAR, TRIMMER 20PF
CV3	1-141-311-11	s CAR, TRIMMER 20PF

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IE-30AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D1	8-719-800-76 s	DIODE ISS226
D2	8-719-400-18 s	DIODE MA152WK
D3	8-719-400-18 s	DIODE MA152WK
D4	8-719-948-47 s	DIODE HSM88AS
D5	8-719-948-47 s	DIODE HSM88AS
D6	8-719-800-76 s	DIODE ISS226
D7	8-719-104-34 s	DIODE 1S2836
D8	8-719-948-47 s	DIODE HSM88AS
D9	8-719-948-47 s	DIODE HSM88AS
DL1	1-415-756-21 s	DELAY LINE
DL2	1-415-485-11 s	120nS+6nS
IC1	8-759-981-51 s	IC RC1496M
IC4	8-759-906-53 s	IC TL062CPS
IC5	1-807-422-11 s	IC BH-1217
IC6	8-759-906-53 s	IC TL062CPS
IC7	8-759-981-51 s	IC RC1496M
IC8	8-759-009-51 s	IC MC14538BF
IC9	8-759-009-51 s	IC MC14538BF
IC10	8-759-008-79 s	IC MC14011BF
L1	1-408-785-21 s	CHIP 47uH
L4	1-410-717-31 s	INDUCTOR, CHIP 100uH
L5	1-408-777-00 s	CHIP 10uH
L6	1-408-780-21 s	INDUCTOR CHIP 18uH
L7	1-410-717-31 s	INDUCTOR, CHIP 100uH
LV1	1-408-845-00 s	INDUCTOR, VAR, 100uH
Q1	8-729-122-63 s	TRANSISTOR 2SA1226
Q2	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q3	8-729-122-63 s	TRANSISTOR 2SA1226
Q9	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q10	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q11	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q12	8-729-100-66 s	TRANSISTOR 2SC1623
Q13	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q14	8-729-122-63 s	TRANSISTOR 2SA1226
Q15	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q21	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q22	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q23	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q24	8-729-122-63 s	TRANSISTOR 2SA1226
Q25	8-729-109-44 s	TRANSISTOR 2SK94
Q26	8-729-109-44 s	TRANSISTOR 2SK94
Q27	8-729-122-63 s	TRANSISTOR 2SA1226
Q28	8-729-122-63 s	TRANSISTOR 2SA1226
Q29	8-729-109-44 s	TRANSISTOR 2SK94
Q30	8-729-109-44 s	TRANSISTOR 2SK94
Q31	8-729-122-63 s	TRANSISTOR 2SA1226
Q32	8-729-122-63 s	TRANSISTOR 2SA1226
Q33	8-729-122-63 s	TRANSISTOR 2SA1226
Q34	8-729-122-63 s	TRANSISTOR 2SA1226
Q35	8-729-122-63 s	TRANSISTOR 2SA1226
Q36	8-729-122-63 s	TRANSISTOR 2SA1226
Q37	8-729-100-66 s	TRANSISTOR 2SC1623
Q38	8-729-109-44 s	TRANSISTOR 2SK94
Q41	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q42	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q43	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q44	8-729-109-44 s	TRANSISTOR 2SK94

(IE-30AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q45	8-729-109-44 s	TRANSISTOR 2SK94
Q46	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q47	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q48	8-729-122-63 s	TRANSISTOR 2SA1226
Q49	8-729-122-63 s	TRANSISTOR 2SA1226
Q50	8-729-100-66 s	TRANSISTOR 2SC1623
Q51	8-729-122-63 s	TRANSISTOR 2SA1226
Q52	8-729-122-63 s	TRANSISTOR 2SA1226
Q53	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q54	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q56	8-729-122-63 s	TRANSISTOR 2SA1226
Q57	8-729-122-63 s	TRANSISTOR 2SA1226
Q58	8-729-216-22 s	TRANSISTOR 2SA1162
Q59	8-729-100-66 s	TRANSISTOR 2SC1623
R7	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
R8	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R10	1-216-647-11 s	METAL, CHIP 680 0.5% 1/10W
R13	1-216-641-11 s	METAL, CHIP 390 0.5% 1/10W
R28	1-216-631-11 s	METAL, CHIP 150 0.5% 1/10W
R29	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R32	1-216-634-11 s	METAL, CHIP 200 0.5% 1/10W
R33	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R34	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R45	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R59	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R60	1-216-631-11 s	METAL, CHIP 150 0.5% 1/10W
R63	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R79	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R80	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R81	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R82	1-216-643-11 s	METAL, CHIP 470 0.5% 1/10W
R88	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R89	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R91	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R93	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R94	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R108	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R109	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R110	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R127	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R128	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R129	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R147	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R148	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R161	1-216-682-11 s	METAL, CHIP 20K 0.5% 1/10W
R162	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W
R163	1-216-679-11 s	METAL, CHIP 15K 0.5% 1/10W
R164	1-216-678-11 s	METAL, CHIP 13K 0.5% 1/10W
RV1	1-237-034-11 s	RES, ADJ, METAL 2K
RV2	1-237-032-11 s	RES, ADJ, METAL 500
RV3	1-237-035-11 s	RES, ADJ, METAL 5K
RV4	1-228-471-00 s	RES, ADJ, METAL 1K
RV5	1-228-474-00 s	RES, ADJ, METAL 10K
RV6	1-237-035-11 s	RES, ADJ, METAL 5K
RV7	1-228-472-00 s	RES, ADJ, METAL 2K
RV8	1-228-470-00 s	RES, ADJ, METAL 500
RV10	1-237-035-11 s	RES, ADJ, METAL 5K
RV12	1-237-038-11 s	RES, ADJ, METAL 50K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(IE-30AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV13	1-237-032-11 s	RES, ADJ, METAL 500
RV14	1-237-033-11 s	RES, ADJ, METAL 1K
S1	1-570-610-11 s	SWITCH, TOGGLE

IE-31 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-521-A o	MOUNTED CIRCUIT BOARD, IE-31
C110	1-135-216-11 s	TANTAL 10uF 20% 10V
C113	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
C114	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
C115	1-135-216-11 s	TANTAL 10uF 20% 10V
C116	1-135-177-21 s	TANTALUM CHIP 1uF 10% 25V
C118	1-135-216-11 s	TANTAL 10uF 20% 10V
C119	1-135-159-21 s	TANTALUM, CHIP 10uF 10% 20V
CN4	1-566-475-11 o	PIN, SOCKET 3P
CN5	1-566-475-11 o	PIN, SOCKET 3P
D10	8-719-800-76 s	DIODE 1SS226
DL3	1-415-408-11 s	DELAY LINE, DUAL 50nS, 100nS
DL4	1-415-502-11 s	DELAY LINE 100nS
Q65	8-729-122-63 s	TRANSISTOR 2SA1226
Q66	8-729-100-66 s	TRANSISTOR 2SC1623
Q67	8-729-100-66 s	TRANSISTOR 2SC1623
Q68	8-729-175-73 s	TRANSISTOR 2SC2757
Q69	8-729-175-73 s	TRANSISTOR 2SC2757
Q70	8-729-100-66 s	TRANSISTOR 2SC1623
Q71	8-729-175-73 s	TRANSISTOR 2SC2757
Q72	8-729-122-63 s	TRANSISTOR 2SA1226
Q73	8-729-122-63 s	TRANSISTOR 2SA1226
Q74	8-729-100-66 s	TRANSISTOR 2SC1623
Q75	8-729-100-66 s	TRANSISTOR 2SC1623
R203	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R204	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R205	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R207	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R208	1-216-664-11 s	METAL, CHIP 3.6K 0.5% 1/10W
R209	1-216-656-11 s	METAL, CHIP 1.6K 0.5% 1/10W
R211	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R215	1-216-042-00 s	METAL, CHIP 510 5% 1/10W
R217	1-216-658-11 s	METAL, CHIP 2K 0.5% 1/10W
R219	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R220	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R221	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W
R224	1-216-655-11 s	METAL, CHIP 1.5K 0.5% 1/10W
R226	1-216-633-11 s	METAL, CHIP 180 0.5% 1/10W
R227	1-216-651-11 s	METAL, CHIP 1K 0.5% 1/10W
R231	1-216-633-11 s	METAL, CHIP 180 0.5% 1/10W
RV17	1-237-032-11 s	RES, ADJ, METAL 500
RV18	1-237-032-11 s	RES, ADJ, METAL 500
RV19	1-237-035-11 s	RES, ADJ, METAL 5K
S2	1-553-510-00 s	SWITCH, SLIDE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

IF-298AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7515-310-B	o MOUNTED CIRCUIT BOARD, IF-298AP
1pc	3-742-032-01	o BRACKET (A), IF
1pc	3-742-033-01	o BRACKET (B), IF
2pcs	3-742-072-01	o SPACER (IF)
1pc	3-742-073-01	o COVER, IF
2pcs	7-621-771-06	s SCREW +B 2X5
2pcs	7-621-772-50	s SCREW +B 2X10
C2	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C5	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C10	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C11	1-135-216-11	s TANTAL 10uF 20% 10V
C13	1-135-216-11	s TANTAL 10uF 20% 10V
C25	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C31	1-135-210-11	s TANTALUM 4.7uF 10% 10V
C32	1-135-216-11	s TANTAL 10uF 20% 10V
C33	1-135-216-11	s TANTAL 10uF 20% 10V
CN1	1-506-476-11	o CONNECTOR, 11P, MALE
CN2	1-565-157-11	o CONNECTOR, 10P, MALE
CN3	1-565-161-11	o CONNECTOR, 14P, MALE
CN4	1-565-161-11	o CONNECTOR, 14P, MALE
CN5	1-506-473-11	o CONNECTOR, 8P, MALE
D1	8-719-400-18	s DIODE MA152WK
D2	8-719-101-58	s DIODE RD5.6EL2
D3	8-719-400-18	s DIODE MA152WK
D6	8-719-400-18	s DIODE MA152WK
D7	8-719-800-76	s DIODE 1SS226
D8	8-719-400-18	s DIODE MA152WK
D9	8-719-400-18	s DIODE MA152WK
D10	8-719-400-18	s DIODE MA152WK
D11	8-719-104-34	s DIODE 1S2836
D12	8-719-400-18	s DIODE MA152WK
D13	8-719-400-18	s DIODE MA152WK
IC1	8-759-209-97	s IC TC4S81F
IC2	8-759-101-12	s IC UPC311G2
IC3	8-741-158-80	s IC SBX1588-01
IC4	8-741-158-80	s IC SBX1588-01
IC5	8-741-158-80	s IC SBX1588-01
IC6	8-759-071-41	s IC CXD8154BM
IC7	8-759-008-79	s IC MC14011BF
IC8	8-759-009-19	s IC MC14081BF
IC9	8-759-009-19	s IC MC14081BF
IC10	8-759-207-74	s IC TC4030BFHB
IC11	8-759-209-90	s IC TC4S71F
IC12	8-759-209-97	s IC TC4S81F
IC13	8-759-205-78	s IC TC4013BF
IC14	8-759-209-69	s IC TC4S11F
IC15	8-759-234-13	s IC TC4S30F
IC16	8-759-209-57	s IC TC4S69F
IC17	8-759-209-57	s IC TC4S69F
L1	1-408-785-21	s CHIP 47uH
Q1	8-729-100-66	s TRANSISTOR 2SC1623
Q2	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q4	8-729-159-64	s TRANSISTOR 2SD596
Q5	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-100-66	s TRANSISTOR 2SC1623
Q7	8-729-100-66	s TRANSISTOR 2SC1623
Q8	8-729-100-66	s TRANSISTOR 2SC1623

(IF-298AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q9	8-729-216-22	s TRANSISTOR 2SA1162
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-100-66	s TRANSISTOR 2SC1623
Q13	8-729-100-66	s TRANSISTOR 2SC1623
R8	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R9	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R10	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R11	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R14	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R15	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R16	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R22	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R23	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R24	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R28	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R29	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R30	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R40	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R41	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R42	1-216-660-11	s METAL, CHIP 2.4K 0.5% 1/10W
R53	1-218-761-11	s METAL, CHIP 240K 0.50% 1/10W
R54	1-218-769-11	s METAL, CHIP 510K 0.50% 1/10W
R64	1-218-769-11	s METAL, CHIP 510K 0.50% 1/10W
R66	1-208-799-11	s METAL, CHIP 5.1K 0.5% 1/10W
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-857-11	s SWITCH, SLIDE
S4	1-570-857-11	s SWITCH, SLIDE
S5	1-570-857-11	s SWITCH, SLIDE
S6	1-570-857-11	s SWITCH, SLIDE
S7	1-553-510-00	s SWITCH, SLIDE
S8	1-553-510-00	s SWITCH, SLIDE
T1	1-427-613-11	s TRANSFORMER, AUDIO INPUT OUTPUT

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

KY-124 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-625-549-11	o PRINTED CIRCUIT BOARD, KY-124
CN1	1-565-143-11	o CONNECTOR, 10P, MALE
D1	8-719-049-48	s LED LT-1D11A, RED
D2	8-719-049-48	s LED LT-1D11A, RED
D3	8-719-049-48	s LED LT-1D11A, RED
S1	1-554-371-51	s SWITCH, TACTILE
S2	1-554-371-51	s SWITCH, TACTILE
S3	1-554-371-51	s SWITCH, TACTILE
S4	1-554-371-51	s SWITCH, TACTILE
S5	1-554-371-51	s SWITCH, TACTILE

LD-21 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-6725-602-A	o MOUNTED CIRCUIT BOARD, LD-21
1pc	3-723-091-01	o HOLDER, TOP SENSOR
CN1	1-506-471-11	o CONNECTOR, 6P, MALE
D1	8-719-106-36	s DIODE RD8.2M-B3
IC1	8-759-948-05	s IC BA6229
L1	1-408-773-31	s INDUCTOR CHIP 4.7uH
L2	1-408-773-31	s INDUCTOR CHIP 4.7uH
L11	1-464-909-21	s COIL, SENSOR
Q1	8-729-100-66	s TRANSISTOR 2SC1623

LP-40 BOARD (Serial No.41954 through 43999)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-562-149-11	o HOUSING, 4P
1pc	1-562-753-11	o CONNECTOR(WAFER), 8P, FEMALE
1pc	1-563-088-11	o CONTACT, FEMALE, AWG24-30
1pc	1-625-086-14	o PRINTED CIRCUIT BOARD, LP-40
D1	8-719-950-72	s LED BR0035, RED

LP-42 BOARD (Serial No.41954 through 43999)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-562-147-11	s HOUSING, 2P
1pc	1-562-735-11	o HOUSING, 2P
1pc	1-563-088-11	o CONTACT, FEMALE, AWG24-30
1pc	1-625-087-11	o PRINTED CIRCUIT BOARD, LP-42
D1	8-719-950-44	s DIODE GL-5LR40, RED
D2	8-719-950-44	s DIODE GL-5LR40, RED

LP-58 BOARD (Serial No.41954 through 43999)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-562-149-11	o HOUSING, 4P
1pc	1-562-753-11	o CONNECTOR(WAFER), 8P, FEMALE
1pc	1-563-088-11	o CONTACT, FEMALE, AWG24-30
1pc	1-635-204-12	o PRINTED CIRCUIT BOARD, LP-58
CN2	1-565-135-11	o PIN, CONNECTOR (STRAIGHT) 2P
D1	8-719-950-72	s LED BR0035, RED
D2	8-719-812-44	s LED TLO124, ORG

LP-64 BOARD (Serial No.44001 and higher)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-643-704-11	o PRINTED CIRCUIT BOARD, LP-64
1pc	1-565-164-11	o TERMINAL, SOLDERLESS
CN13	1-565-123-11	o HOUSING, CONNECTOR 4P
D1	8-719-026-39	s DIODE CL-150UR-CD

LP-65 BOARD (Serial No.44001 and higher)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-643-705-11	o PRINTED CIRCUIT BOARD, LP-65
1pc	1-565-164-11	o TERMINAL, SOLDERLESS
CN13	1-565-123-11	o HOUSING, CONNECTOR 4P
D1	8-719-026-16	s DIODE CL-150D-CD
D2	8-719-026-39	s DIODE CL-150UR-CD
D3	8-719-026-16	s DIODE CL-150D-CD

LP-66 BOARD (Serial No.44001 and higher)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-562-147-11	s HOUSING, 2P
1pc	1-562-735-11	o HOUSING, 2P
1pc	1-563-088-11	o CONTACT, FEMALE, AWG24-30
1pc	1-564-832-11	o CONTACT
1pc	1-643-706-11	o PRINTED CIRCUIT BOARD, LP-66
1pc	3-722-474-05	o BRACKET, LP
2pcs	7-627-556-37	s SCREW, PRECISION +P2.6X4 TYPE 1
D1	8-719-950-44	s DIODE GL-5LR40, RED
D2	8-719-950-44	s DIODE GL-5LR40, RED

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

MB-317AP BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-7515-314-A	o MOUNTED CIRCUIT BOARD, MB-317AP
2pcs	3-722-391-01	o HOLDER, GP2S09
26pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
C1	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C2	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C3	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C4	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C5	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C6	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C7	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C61	1-162-568-11	s CERAMIC, CHIP 0.33uF 25V
C62	1-162-568-11	s CERAMIC, CHIP 0.33uF 25V
C63	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C64	1-163-143-00	s CERAMIC, CHIP 0.0012uF 5% 50V
C65	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C66	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C101	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C102	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C103	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C104	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C105	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C106	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C121	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C126	1-135-201-11	s TANTALUM 10uF 20% 6.3V
C127	1-135-201-11	s TANTALUM 10uF 20% 6.3V
C151	1-126-403-11	s ELECT 3.3uF 20% 50V
C152	1-126-403-11	s ELECT 3.3uF 20% 50V
C153	1-126-403-11	s ELECT 3.3uF 20% 50V
C154	1-163-227-11	s CERAMIC 10PF 5% 50V
C155	1-163-227-11	s CERAMIC 10PF 5% 50V
C201	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C202	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C302	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C401	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C402	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C403	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C404	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C407	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
CN1	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN2	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN3	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN4	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN5	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN6	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN7	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN8	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN9	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN10	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN11	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN12	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN13	1-566-962-11	o CONNECTOR, 50P, FEMALE
CN21	1-566-400-11	o CONNECTOR, 20P, MALE
CN22	1-566-391-11	o CONNECTOR 12P
CN23	1-506-468-11	o CONNECTOR, 3P, MALE
CN24	1-506-470-11	o CONNECTOR, 5P, MALE
CN25	1-506-468-11	o CONNECTOR, 3P, MALE
CN31	1-566-536-11	s CONNECTOR, 20P
CN32	1-566-536-11	s CONNECTOR, 20P

(MB-317AP BOARD)

Ref. No. or Q' ty	Part No.	SP Description
CN41	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN42	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN43	1-562-772-11	o CONNECTOR, 12P, FEMALE
CN44	1-562-773-11	o CONNECTOR, 40P, FEMALE
CN50	1-566-397-11	o CONNECTOR, 14P, MALE
CN51	1-566-397-11	o CONNECTOR, 14P, MALE
CN52	1-506-471-11	o CONNECTOR, 6P, MALE
CN53	1-506-469-11	o CONNECTOR, 4P, MALE
CN54	1-566-398-11	o CONNECTOR, 16P, MALE
CN55	1-506-470-11	o CONNECTOR, 5P, MALE
CN56	1-506-481-11	o CONNECTOR, 2P, MALE
CN57	1-506-470-41	o CONNECTOR, 5P, MALE
CN58	1-566-395-11	o CONNECTOR, 10P, MALE
CN59	1-565-157-11	o CONNECTOR, 10P, MALE
CN60	1-564-710-11	s CONNECTOR, 8P, MALE
CN61	1-506-468-11	o CONNECTOR, 3P, MALE
CN62	1-506-469-11	o CONNECTOR, 4P, MALE
CN63	1-506-468-11	o CONNECTOR, 3P, MALE
CN64	1-564-704-11	o CONNECTOR, 2P, MALE
CN501	1-506-470-11	o CONNECTOR, 5P, MALE
CN502	1-506-471-11	o CONNECTOR, 6P, MALE
CN503	1-506-467-11	o CONNECTOR, 2P, MALE
CN504	1-506-468-11	o CONNECTOR, 3P, MALE
CN505	1-506-472-11	o CONNECTOR, 7P, MALE
CN506	1-506-467-11	o CONNECTOR, 2P, MALE
CN507	1-506-467-11	o CONNECTOR, 2P, MALE
CN508	1-565-156-11	o CONNECTOR, 9P, MALE
CN509	1-506-467-11	o CONNECTOR, 2P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-400-18	s DIODE MA152WK
D3	8-719-400-18	s DIODE MA152WK
D4	8-719-400-18	s DIODE MA152WK
D61	8-719-941-23	s DIODE DA204U
D62	8-719-941-23	s DIODE DA204U
D63	8-719-105-28	s DIODE RD2.4M-B
D64	8-719-105-28	s DIODE RD2.4M-B
D101	8-719-200-36	s DIODE E10QS04
D102	8-719-200-36	s DIODE E10QS04
D103	8-719-200-36	s DIODE E10QS04
D105	8-719-106-88	s DIODE RD15M-B1
D151	8-719-800-76	s DIODE 1SS226
D152	8-719-800-76	s DIODE 1SS226
D401	8-719-800-76	s DIODE 1SS226
D402	8-719-800-76	s DIODE 1SS226
D403	8-719-800-76	s DIODE 1SS226
IC2	8-759-300-71	s IC MC14053BF
IC3	8-759-209-57	s IC TC4S69F
IC4	8-759-209-57	s IC TC4S69F
IC61	8-759-906-53	s IC TL062CPS
IC62	8-759-300-71	s IC MC14053BF
IC63	8-759-981-86	s IC RC4556MA
IC101	8-759-805-06	s IC CXA1127M
IC102	8-759-981-92	s IC RC4558M
IC121	8-759-981-92	s IC RC4558M
IC122	8-759-981-92	s IC RC4558M
IC151	8-759-981-54	s IC RC2041MD
IC201	8-759-200-88	s IC TC4512BF
IC202	8-759-200-88	s IC TC4512BF

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(MB-317AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC401	8-759-981-65	s IC LM2903WM
IC402	8-759-605-18	s IC CX-518
IC403	8-759-209-90	s IC TC4S71F
IC404	8-759-300-71	s IC MC14053BF
IC405	8-759-209-97	s IC TC4S81F
L1	1-408-785-21	s CHIP 47uH
L2	1-408-785-21	s CHIP 47uH
L3	1-408-781-00	s CHIP 22uH
L16	1-408-785-21	s CHIP 47uH
L151	1-408-776-00	s INDUCTOR CHIP 8.2uH
L152	1-408-776-00	s INDUCTOR CHIP 8.2uH
PD31	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PD32	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PD33	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PD34	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PD35	8-719-939-05	s PHOTOINTERRUPTER GP-1S54
PD36	8-719-939-11	s PHOTOINTERRUPTER GP-2S09-B
PD37	8-719-939-11	s PHOTOINTERRUPTER GP-2S09-B
Q1	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q2	8-729-117-32	s TRANSISTOR 2SC4177
Q3	8-729-117-32	s TRANSISTOR 2SC4177
Q4	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q6	8-729-117-32	s TRANSISTOR 2SC4177
Q31	8-729-117-32	s TRANSISTOR 2SC4177
Q32	8-729-117-32	s TRANSISTOR 2SC4177
Q33	8-729-117-32	s TRANSISTOR 2SC4177
Q34	8-729-117-32	s TRANSISTOR 2SC4177
Q35	8-729-117-32	s TRANSISTOR 2SC4177
Q36	8-729-117-32	s TRANSISTOR 2SC4177
Q37	8-729-117-32	s TRANSISTOR 2SC4177
Q107	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q108	8-729-109-44	s TRANSISTOR 2SK94
Q151	8-729-271-31	s TRANSISTOR 2SC2713G
Q201	8-729-216-22	s TRANSISTOR 2SA1162
Q202	8-729-421-71	s TRANSISTOR 2SK620
Q301	8-729-906-33	s TRANSISTOR DTC114YU
Q401	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q402	8-729-117-32	s TRANSISTOR 2SC4177
Q403	8-729-109-44	s TRANSISTOR 2SK94
Q404	8-729-117-32	s TRANSISTOR 2SC4177
Q405	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q501	8-729-175-72	s TRANSISTOR 2SC2757-T33
R7	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R8	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R9	1-216-680-11	s METAL, CHIP 16K 0.5% 1/10W
R10	1-216-684-11	s METAL, CHIP 24K 0.5% 1/10W
R11	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R72	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R74	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R75	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R78	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R101	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R103	1-216-683-11	s METAL, CHIP 22K 0.5% 1/10W
R104	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R116	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R121	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R122	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W

(MB-317AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R123	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R124	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R153	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R154	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R155	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R157	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R158	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R161	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R162	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R163	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R164	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R166	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R167	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R168	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R169	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R509	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R514	1-216-114-00	s METAL 510K 5% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

PA-101 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-958-A	o MOUNTED CIRCUIT BOARD, PA-101
C3	1-163-235-11	s CERAMIC 22PF 5% 50V
C4	1-163-235-11	s CERAMIC 22PF 5% 50V
C8	1-163-235-11	s CERAMIC 22PF 5% 50V
C10	1-163-100-00	s CERAMIC, CHIP 20PF 5% 50V
C16	1-163-235-11	s CERAMIC 22PF 5% 50V
C17	1-163-235-11	s CERAMIC 22PF 5% 50V
C19	1-163-235-11	s CERAMIC 22PF 5% 50V
C21	1-163-114-00	s CERAMIC, CHIP 75PF 5% 50V
C28	1-163-235-11	s CERAMIC 22PF 5% 50V
C29	1-163-235-11	s CERAMIC 22PF 5% 50V
C32	1-163-235-11	s CERAMIC 22PF 5% 50V
C34	1-163-107-00	s CERAMIC, CHIP 39PF 5% 50V
C41	1-163-235-11	s CERAMIC 22PF 5% 50V
C42	1-163-235-11	s CERAMIC 22PF 5% 50V
C48	1-163-118-00	s CERAMIC, CHIP 110PF 5% 50V
C49	1-163-100-00	s CERAMIC, CHIP 20PF 5% 50V
C50	1-163-128-00	s CERAMIC, CHIP 300PF 5% 50V
C51	1-163-102-00	s
C52	1-163-135-00	s CERAMIC, CHIP 560PF 5% 50V
CN1	1-506-471-11	o CONNECTOR, 6P, MALE
CN2	1-506-469-11	o CONNECTOR, 4P, MALE
CN3	1-563-238-11	o CONNECTOR, 15P, FEMALE
CN4	1-506-467-11	o CONNECTOR, 2P, MALE
CN5	1-506-467-11	o CONNECTOR, 2P, MALE
CN6	1-506-467-11	o CONNECTOR, 2P, MALE
FL1	1-236-184-11	s TRAP 14.3MHZ
FL2	1-236-184-11	s TRAP 14.3MHZ
FL3	1-236-184-11	s TRAP 14.3MHZ
Q1	8-729-122-63	s TRANSISTOR 2SA1226
Q2	8-765-930-08	s TRANSISTOR 3SK163-2
Q3	8-729-120-28	s TRANSISTOR 2SC1623
Q4	8-729-122-63	s TRANSISTOR 2SA1226
Q5	8-765-930-08	s TRANSISTOR 3SK163-2
Q6	8-729-802-80	s TRANSISTOR 2SC3661
Q7	8-729-122-63	s TRANSISTOR 2SA1226
Q8	8-765-930-08	s TRANSISTOR 3SK163-2
Q9	8-729-802-80	s TRANSISTOR 2SC3661
Q10	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q11	8-729-120-28	s TRANSISTOR 2SC1623
Q12	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q13	8-729-120-28	s TRANSISTOR 2SC1623
Q14	8-765-930-08	s TRANSISTOR 3SK163-2
Q15	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q16	8-729-122-63	s TRANSISTOR 2SA1226
Q17	8-765-930-08	s TRANSISTOR 3SK163-2
Q18	8-729-120-28	s TRANSISTOR 2SC1623
Q19	8-729-122-63	s TRANSISTOR 2SA1226
Q20	8-765-930-08	s TRANSISTOR 3SK163-2
Q21	8-729-802-80	s TRANSISTOR 2SC3661
Q22	8-729-122-63	s TRANSISTOR 2SA1226
Q23	8-765-930-08	s TRANSISTOR 3SK163-2
Q24	8-729-802-80	s TRANSISTOR 2SC3661
Q25	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q26	8-729-120-28	s TRANSISTOR 2SC1623
Q27	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q28	8-729-120-28	s TRANSISTOR 2SC1623

(PA-101 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q29	8-765-930-08	s TRANSISTOR 3SK163-2
Q30	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q31	8-729-216-22	s TRANSISTOR 2SA1162
Q32	8-729-122-63	s TRANSISTOR 2SA1226
Q33	8-765-930-08	s TRANSISTOR 3SK163-2
Q34	8-729-120-28	s TRANSISTOR 2SC1623
Q35	8-729-122-63	s TRANSISTOR 2SA1226
Q36	8-765-930-08	s TRANSISTOR 3SK163-2
Q37	8-729-120-28	s TRANSISTOR 2SC1623
Q39	8-729-122-63	s TRANSISTOR 2SA1226
Q40	8-765-930-08	s TRANSISTOR 3SK163-2
Q41	8-729-120-28	s TRANSISTOR 2SC1623
Q43	8-765-930-08	s TRANSISTOR 3SK163-2
Q44	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q45	8-729-120-28	s TRANSISTOR 2SC1623
Q46	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q47	8-729-120-28	s TRANSISTOR 2SC1623
Q48	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q49	8-729-122-63	s TRANSISTOR 2SA1226
Q50	8-765-930-08	s TRANSISTOR 3SK163-2
Q51	8-729-802-80	s TRANSISTOR 2SC3661
Q52	8-729-122-63	s TRANSISTOR 2SA1226
Q53	8-765-930-08	s TRANSISTOR 3SK163-2
Q54	8-729-802-80	s TRANSISTOR 2SC3661
Q55	8-729-216-22	s TRANSISTOR 2SA1162
Q56	8-729-216-22	s TRANSISTOR 2SA1162
Q57	8-729-216-22	s TRANSISTOR 2SA1162
R1	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R13	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R20	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R22	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R23	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R26	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R29	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R31	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R43	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R48	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R49	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R50	1-216-693-11	s METAL, CHIP 56K 0.5% 1/10W
R51	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R54	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R55	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R60	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R61	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R74	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R78	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R82	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R83	1-216-106-00	s METAL CHIP 240K 5% 1/10W
R84	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R87	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R88	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R101	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R104	1-216-670-11	s METAL, CHIP 6.2K 0.5% 1/10W
R107	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R114	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
RV1	1-237-041-11	s RES, ADJ, METAL 500K
RV2	1-237-041-11	s RES, ADJ, METAL 500K
RV3	1-237-041-11	s RES, ADJ, METAL 500K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

PR-176 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8271-333-A	o MOUNTED CIRCUIT BOARD, PR-176 (including PR-177 and PR-178 board)
1pc	3-724-710-01	o PLATE (PR-102), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-623-952-21	s WASHER 2.0, FIBER
1pc	7-688-001-12	s W 2, MIDDLE
C3	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C4	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C6	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C9	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C13	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C18	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C21	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C23	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C28	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C29	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C30	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C31	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C40	1-135-210-11	s TANTALUM 4.7uF 10% 10V
C41	1-135-210-11	s TANTALUM 4.7uF 10% 10V
C43	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C44	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C47	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C48	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C49	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C52	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C54	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C56	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C57	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C60	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C62	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C67	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C68	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C69	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C70	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C71	1-135-159-21	s TANTALUM CHIP 10uF 10% 20V
C80	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C81	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C84	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C85	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C86	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C89	1-135-177-21	s TANTALUM CHIP 1uF 10% 25V
C94	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C97	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C99	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C104	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C105	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C106	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C107	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C128	1-135-161-21	s TANTAL 22uF 10% 10V
C129	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C130	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C136	1-163-131-00	s CERAMIC, CHIP 390PF 5% 50V
C137	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C138	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C139	1-135-165-11	s TANTAL 33uF 10% 16V
C140	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V

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Ref. No. or Q'ty	Part No.	SP Description
C143	1-131-365-00	s TANTALUM 10uF 10% 20V
C150	1-163-222-11	s CERAMIC 5PF 0.25PF 50V
C151	1-163-222-11	s CERAMIC 5PF 0.25PF 50V
C152	1-163-222-11	s CERAMIC 5PF 0.25PF 50V
C153	1-163-237-11	s CERAMIC 27PF 5% 50V
C154	1-163-237-11	s CERAMIC 27PF 5% 50V
C155	1-163-237-11	s CERAMIC 27PF 5% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-568-613-11	o CONNECTOR, FEMALE, 2P
CN4	1-568-613-11	o CONNECTOR, FEMALE, 2P
CN5	1-563-949-11	o SOCKET, SIL 8P
CN8	1-568-613-11	o CONNECTOR, FEMALE, 2P
CN9	1-568-613-11	o CONNECTOR, FEMALE, 2P
CN12	1-568-613-11	o CONNECTOR, FEMALE, 2P
CV1	1-141-369-22	s CAP, CHIP TRIMMER
CV2	1-141-369-22	s CAP, CHIP TRIMMER
CV3	1-141-369-22	s CAP, CHIP TRIMMER
D2	8-719-815-59	s DIODE 1S1555-S
D4	8-719-400-18	s DIODE MA152WK
D5	8-719-815-59	s DIODE 1S1555-S
D7	8-719-400-18	s DIODE MA152WK
D8	8-719-815-59	s DIODE 1S1555-S
D12	8-719-815-59	s DIODE 1S1555-S
D13	8-719-815-59	s DIODE 1S1555-S
D14	8-719-815-59	s DIODE 1S1555-S
D15	8-719-027-95	s DIODE HSM88WK
D17	8-719-815-59	s DIODE 1S1555-S
D18	8-719-815-59	s DIODE 1S1555-S
D19	8-719-815-59	s DIODE 1S1555-S
D20	8-719-027-95	s DIODE HSM88WK
D21	8-719-815-59	s DIODE 1S1555-S
D22	8-719-815-59	s DIODE 1S1555-S
D23	8-719-815-59	s DIODE 1S1555-S
D25	8-719-400-18	s DIODE MA152WK
D26	8-719-800-76	s DIODE 1SS226
D27	8-719-400-18	s DIODE MA152WK
D28	8-719-400-18	s DIODE MA152WK
D29	8-719-400-18	s DIODE MA152WK
D30	8-719-800-76	s DIODE 1SS226
D34	8-719-400-18	s DIODE MA152WK
D35	8-719-800-76	s DIODE 1SS226
DL1	1-415-489-31	s DELAY LINE
DL2	1-415-489-31	s DELAY LINE
DL3	1-415-489-31	s DELAY LINE
IC1	8-759-906-54	s IC TL064CNS
IC2	8-759-906-53	s IC TL062CPS
IC3	8-759-906-54	s IC TL064CNS
IC5	8-759-906-53	s IC TL062CPS
IC7	8-759-906-53	s IC TL062CPS
IC11	1-810-067-11	s BP-020
IC12	1-810-066-11	s BP-021

See page 13-77 and 13-78, for
the parts list of the BP-020
and the BP-021.

Please see pages 13-52 and 13-53 for the part numbers
of capacitors and resistors that are not listed in
the parts list.

(PR-176 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L1	1-408-785-21	s CHIP 47uH
L2	1-408-785-21	s CHIP 47uH
L3	1-408-781-00	s CHIP 22uH
Q1	8-729-175-73	s TRANSISTOR 2SC2757
Q2	8-729-122-63	s TRANSISTOR 2SA1226
Q3	8-729-403-29	s TRANSISTOR XN6435
Q4	8-729-403-32	s TRANSISTOR XN6534
Q5	8-729-403-32	s TRANSISTOR XN6534
Q6	8-729-403-32	s TRANSISTOR XN6534
Q7	8-729-122-63	s TRANSISTOR 2SA1226
Q8	8-765-930-08	s TRANSISTOR 3SK163-2
Q9	8-729-116-64	s TRANSISTOR 2SK508-K51
Q10	8-729-403-32	s TRANSISTOR XN6534
Q11	8-729-109-44	s TRANSISTOR 2SK94
Q12	8-729-109-44	s TRANSISTOR 2SK94
Q13	8-729-403-29	s TRANSISTOR XN6435
Q14	8-729-403-29	s TRANSISTOR XN6435
Q16	8-729-403-29	s TRANSISTOR XN6435
Q17	8-729-403-29	s TRANSISTOR XN6435
Q18	8-729-122-63	s TRANSISTOR 2SA1226
Q19	8-729-403-29	s TRANSISTOR XN6435
Q20	8-729-403-32	s TRANSISTOR XN6534
Q21	8-729-109-44	s TRANSISTOR 2SK94
Q28	8-729-122-63	s TRANSISTOR 2SA1226
Q29	8-729-175-73	s TRANSISTOR 2SC2757
Q30	8-729-122-63	s TRANSISTOR 2SA1226
Q31	8-729-403-29	s TRANSISTOR XN6435
Q32	8-729-403-32	s TRANSISTOR XN6534
Q33	8-729-403-32	s TRANSISTOR XN6534
Q34	8-729-403-32	s TRANSISTOR XN6534
Q35	8-729-122-63	s TRANSISTOR 2SA1226
Q36	8-765-930-08	s TRANSISTOR 3SK163-2
Q37	8-729-116-64	s TRANSISTOR 2SK508-K51
Q38	8-729-403-32	s TRANSISTOR XN6534
Q39	8-729-109-44	s TRANSISTOR 2SK94
Q40	8-729-109-44	s TRANSISTOR 2SK94
Q41	8-729-403-29	s TRANSISTOR XN6435
Q42	8-729-403-29	s TRANSISTOR XN6435
Q44	8-729-403-29	s TRANSISTOR XN6435
Q45	8-729-403-32	s TRANSISTOR XN6534
Q46	8-729-403-29	s TRANSISTOR XN6435
Q47	8-729-109-44	s TRANSISTOR 2SK94
Q54	8-729-175-73	s TRANSISTOR 2SC2757
Q55	8-729-122-63	s TRANSISTOR 2SA1226
Q56	8-729-403-29	s TRANSISTOR XN6435
Q57	8-729-403-32	s TRANSISTOR XN6534
Q58	8-729-403-32	s TRANSISTOR XN6534
Q59	8-729-403-32	s TRANSISTOR XN6534
Q60	8-729-122-63	s TRANSISTOR 2SA1226
Q61	8-765-930-08	s TRANSISTOR 3SK163-2
Q62	8-729-116-64	s TRANSISTOR 2SK508-K51
Q63	8-729-403-32	s TRANSISTOR XN6534
Q64	8-729-109-44	s TRANSISTOR 2SK94
Q65	8-729-109-44	s TRANSISTOR 2SK94
Q66	8-729-403-29	s TRANSISTOR XN6435
Q67	8-729-403-29	s TRANSISTOR XN6435
Q69	8-729-403-29	s TRANSISTOR XN6435
Q70	8-729-403-32	s TRANSISTOR XN6534

(PR-176 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q71	8-729-403-29	s TRANSISTOR XN6435
Q72	8-729-109-44	s TRANSISTOR 2SK94
Q90	8-729-403-32	s TRANSISTOR XN6534
Q91	8-729-175-73	s TRANSISTOR 2SC2757
Q92	8-729-175-73	s TRANSISTOR 2SC2757
Q93	8-729-122-63	s TRANSISTOR 2SA1226
Q95	8-729-122-63	s TRANSISTOR 2SA1226
R2	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R4	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R5	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R8	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R9	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R11	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R12	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R13	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R16	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R20	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R21	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
R24	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R25	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R26	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R27	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R28	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R29	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R32	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R33	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R34	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R38	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R40	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R42	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R43	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R45	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R47	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R48	1-216-684-11	s METAL, CHIP 24K 0.5% 1/10W
R50	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R51	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R52	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R55	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R57	1-216-647-11	s METAL, CHIP 680 0.5% 1/10W
R58	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R61	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R62	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R63	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R68	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R69	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R70	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R73	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R98	1-216-025-00	s METAL, CHIP 100 5% 1/10W
R100	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R102	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R103	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R106	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R107	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R108	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R110	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R111	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R112	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(PR-176 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R115	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R119	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R120	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
R125	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R126	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R127	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R131	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R133	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R135	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R136	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R139	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R140	1-216-684-11	s METAL, CHIP 24K 0.5% 1/10W
R142	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R143	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R144	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R147	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R149	1-216-647-11	s METAL, CHIP 680 0.5% 1/10W
R150	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R154	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R155	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R156	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R159	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R177	1-216-647-11	s METAL, CHIP 680 0.5% 1/10W
R180	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R181	1-216-644-11	s METAL, CHIP 510 0.5% 1/10W
R184	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R185	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R187	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R188	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R189	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R192	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R196	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R197	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R198	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R202	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R203	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R204	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R208	1-216-678-11	s METAL, CHIP 13K 0.5% 1/10W
R210	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R212	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R213	1-216-676-11	s METAL, CHIP 11K 0.5% 1/10W
R215	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R217	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R218	1-216-684-11	s METAL, CHIP 24K 0.5% 1/10W
R220	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R221	1-216-673-11	s METAL, CHIP 8.2K 0.5% 1/10W
R222	1-216-666-11	s METAL, CHIP 4.3K 0.5% 1/10W
R225	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R227	1-216-647-11	s METAL, CHIP 680 0.5% 1/10W
R228	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R232	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R233	1-216-648-11	s METAL, CHIP 750 0.5% 1/10W
R234	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R237	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R297	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R298	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R299	1-216-061-00	s METAL, CHIP 3.3K 5% 1/10W
R331	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R332	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R333	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W

(PR-176 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R336	1-216-672-11	s METAL, CHIP 7.5K 0.5% 1/10W
R337	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R338	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R340	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R341	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R342	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R343	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R344	1-216-650-11	s METAL, CHIP 910 0.5% 1/10W
R352	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R353	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R359	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
RV1	1-237-032-11	s RES, ADJ, METAL 500
RV2	1-228-472-00	s RES, ADJ, METAL 2K
RV3	1-228-472-00	s RES, ADJ, METAL 2K
RV4	1-228-472-00	s RES, ADJ, METAL 2K
RV7	1-237-034-11	s RES, ADJ, METAL 2K
RV8	1-228-473-00	s RES, ADJ, METAL 5K
RV9	1-228-473-00	s RES, ADJ, METAL 5K
RV10	1-228-473-00	s RES, ADJ, METAL 5K
RV12	1-228-471-00	s RES, ADJ, METAL 1K
RV13	1-228-471-00	s RES, ADJ, METAL 1K
RV14	1-228-471-00	s RES, ADJ, METAL 1K
RV15	1-228-470-00	s RES, ADJ, METAL 500
RV16	1-228-470-00	s RES, ADJ, METAL 500
RV17	1-228-470-00	s RES, ADJ, METAL 500
RV18	1-228-473-00	s RES, ADJ, METAL 5K
RV19	1-228-473-00	s RES, ADJ, METAL 5K
RV20	1-228-473-00	s RES, ADJ, METAL 5K
RV21	1-237-032-11	s RES, ADJ, METAL 500
RV23	1-237-034-11	s RES, ADJ, METAL 2K
RV24	1-237-034-11	s RES, ADJ, METAL 2K
RV25	1-237-032-11	s RES, ADJ, METAL 500
RV28	1-237-034-11	s RES, ADJ, METAL 2K
RV29	1-237-034-11	s RES, ADJ, METAL 2K
RV38	1-237-034-11	s RES, ADJ, METAL 2K
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-570-857-11	s SWITCH, SLIDE
S3	1-570-857-11	s SWITCH, SLIDE
S4	1-570-373-12	s SWITCH, SLIDE
S5	1-570-373-12	s SWITCH, SLIDE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(BP-020)

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-810-067-11	s BP-020 (IC11)
C116	1-135-165-11	s TANTAL 33uF 10% 16V
C117	1-135-165-11	s TANTAL 33uF 10% 16V
C119	1-135-165-11	s TANTAL 33uF 10% 16V
C120	1-135-165-11	s TANTAL 33uF 10% 16V
C121	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C122	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C124	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C126	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C131	1-164-005-11	s CERAMIC, CHIP 0.47uF 25V
C133	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C158	1-135-163-21	s TANTAL 47uF 10% 4V
CN7	1-568-624-11	o CONNECTOR, MAIL, 4P
CN8	1-568-622-11	o CONNECTOR, MAIL, 2P
CN9	1-568-622-11	o CONNECTOR, MAIL, 2P
CN10	1-568-624-11	o CONNECTOR, MAIL, 4P
CN11	1-568-623-11	o CONNECTOR, MAIL, 3P
CN12	1-568-622-11	o CONNECTOR, MAIL, 2P
D9	8-719-104-34	s DIODE 1S2836
D10	8-719-400-18	s DIODE MA152WK
D11	8-719-400-18	s DIODE MA152WK
D24	8-719-948-47	s DIODE HSM88AS
D31	8-719-400-18	s DIODE MA152WK
D36	8-719-104-34	s DIODE 1S2836
IC9	8-759-906-53	s IC TL062CPS
IC10	8-759-300-71	s IC MC14053BF
Q79	8-729-403-29	s TRANSISTOR XN6435
Q80	8-729-159-65	s TRANSISTOR 2SD596-DV5
Q81	8-729-403-32	s TRANSISTOR XN6534
Q82	8-729-403-32	s TRANSISTOR XN6534
Q83	8-729-403-32	s TRANSISTOR XN6534
Q84	8-729-403-32	s TRANSISTOR XN6534
Q86	8-729-403-32	s TRANSISTOR XN6534
Q87	8-729-403-32	s TRANSISTOR XN6534
Q88	8-729-403-29	s TRANSISTOR XN6435
Q89	8-729-175-73	s TRANSISTOR 2SC2757
Q96	8-729-122-63	s TRANSISTOR 2SA1226
R258	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R259	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R260	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R261	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R262	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R263	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R264	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R265	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R268	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R269	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R270	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R271	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R272	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R273	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R276	1-216-104-00	s METAL 200K 0.50% 1/10W
R277	1-216-104-00	s METAL 200K 0.50% 1/10W
R278	1-216-104-00	s METAL 200K 0.50% 1/10W
R279	1-216-104-00	s METAL 200K 0.50% 1/10W

(BP-020)

Ref. No. or Q'ty	Part No.	SP Description
R288	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R325	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R326	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R327	1-216-686-11	s METAL, CHIP 30K 0.5% 1/10W
R328	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R329	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R345	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R346	1-216-653-11	s METAL, CHIP 1.2K 0.5% 1/10W
R347	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
RV30	1-237-036-11	s RES, ADJ, METAL 10K
RV31	1-237-036-11	s RES, ADJ, METAL 10K
RV32	1-237-036-11	s RES, ADJ, METAL 10K
RV33	1-237-036-11	s RES, ADJ, METAL 10K
RV34	1-237-035-11	s RES, ADJ, METAL 5K
RV35	1-237-034-11	s RES, ADJ, METAL 2K
RV36	1-237-034-11	s RES, ADJ, METAL 2K
RV37	1-237-035-11	s RES, ADJ, METAL 5K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(BP-021)

Ref. No.
or Q'ty Part No. SP Description

1pc 1-810-066-11 s BP-021 (IC12)

C30 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C36 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C37 1-163-275-11 s CERAMIC 0.001uF 5% 50V
C38 1-163-245-11 s CERAMIC 56PF 5% 50V
C69 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V

C75 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C76 1-163-275-11 s CERAMIC 0.001uF 5% 50V
C77 1-163-245-11 s CERAMIC 56PF 5% 50V
C106 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V
C112 1-164-005-11 s CERAMIC, CHIP 0.47uF 25V

C113 1-163-275-11 s CERAMIC 0.001uF 5% 50V
C114 1-163-245-11 s CERAMIC 56PF 5% 50V

CN2 1-568-622-11 o CONNECTOR, MAIL, 2P
CN3 1-568-623-11 o CONNECTOR, MAIL, 3P
CN4 1-568-622-11 o CONNECTOR, MAIL, 2P
CN5 1-568-624-11 o CONNECTOR, MAIL, 4P
CN6 1-568-624-11 o CONNECTOR, MAIL, 4P

CN13 1-568-624-11 o CONNECTOR, MAIL, 4P

Q22 8-729-403-29 s TRANSISTOR XN6435
Q23 8-729-403-29 s TRANSISTOR XN6435
Q24 8-729-403-32 s TRANSISTOR XN6534
Q25 8-729-122-63 s TRANSISTOR 2SA1226
Q26 8-729-122-63 s TRANSISTOR 2SA1226

Q27 8-729-175-73 s TRANSISTOR 2SC2757
Q48 8-729-403-29 s TRANSISTOR XN6435
Q49 8-729-403-29 s TRANSISTOR XN6435
Q50 8-729-403-32 s TRANSISTOR XN6534
Q51 8-729-122-63 s TRANSISTOR 2SA1226

Q52 8-729-122-63 s TRANSISTOR 2SA1226
Q53 8-729-175-73 s TRANSISTOR 2SC2757
Q73 8-729-403-29 s TRANSISTOR XN6435
Q74 8-729-403-29 s TRANSISTOR XN6435
Q75 8-729-403-32 s TRANSISTOR XN6534

Q76 8-729-122-63 s TRANSISTOR 2SA1226
Q77 8-729-122-63 s TRANSISTOR 2SA1226
Q78 8-729-175-73 s TRANSISTOR 2SC2757

R81 1-216-058-00 s METAL 2.4K 5% 1/10W
R91 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R92 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R96 1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W
R167 1-216-058-00 s METAL 2.4K 5% 1/10W

R171 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R172 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R176 1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W
R245 1-216-058-00 s METAL 2.4K 5% 1/10W
R249 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W

R250 1-216-644-11 s METAL, CHIP 510 0.5% 1/10W
R254 1-216-064-00 s METAL, CHIP 4.3K 5% 1/10W

PS-162B BOARD

Ref. No.
or Q'ty Part No. SP Description

1pc A-6723-368-A o MOUNTED CIRCUIT BOARD PS-162
Serial No. UP TO 42095

1pc A-8271-736-A o MOUNTED CIRCUIT BOARD PS-162B
Serial No. 42096 and higher

1pc 3-724-752-01 o HOLDER (PS), PC BOARD
1pc 3-729-012-01 s SCREW (M2X5)
1pc 7-623-420-07 s LW 2, TYPE B

C1 1-126-163-11 s ELECT 4.7MF 20% 50V
C4 1-125-309-00 s DOUBLE LAYERS 0.33FARAD 5.5V
C5 1-124-248-00 s ELECT 22uF 20% 35V

CB1 Δ 1-532-681-00 s CIRCUIT BREAKER 4A 125V

CN1 1-564-705-11 o CONNECTOR, 3P, MALE
CN2 1-564-707-11 o CONNECTOR, 5P, MALE
CN3 1-506-468-11 o CONNECTOR, 3P, MALE
CN4 1-506-468-11 o CONNECTOR, 3P, MALE
CN5 1-564-710-11 s CONNECTOR, 8P, MALE

CN6 1-695-903-21 s CONNECTOR, 12P
CN7 1-564-704-11 o CONNECOR, 2P, MALE
CN8 1-506-469-11 o CONNECTOR, 4P, MALE
CN10 1-564-706-11 o PIN HEADER, STRAIGHT 4P

D1 8-719-911-55 s DIODE U05G
D2 8-719-800-76 s DIODE 1SS226
D3 8-719-800-76 s DIODE 1SS226
D4 8-719-911-55 s DIODE U05G
D5 8-719-160-20 s DIODE RD4.7FB

IC1 8-759-906-53 s IC TL062CPS
IC2 8-759-939-41 s IC S-81230AG-RB

Q1 8-729-202-62 s TRANSISTOR 2SD1221
Q2 8-729-100-66 s TRANSISTOR 2SC1623
Q3 8-729-119-59 s TRANSISTOR 2SK612-Z
Q4 8-729-109-44 s TRANSISTOR 2SK94

R1 1-249-389-11 s CARBON 4.7 5% 1/4W

RV1 1-230-873-11 s RES, ADJ, METAL 47K

S1 1-570-610-11 s SWITCH, TOGGLE
S2 1-570-610-11 s SWITCH, TOGGLE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SG-152P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-960-A	o MOUNTED CIRCUIT BOARD, SG-152P
1pc	1-565-123-11	o HOUSING, 4P
1pc	1-565-164-11	o CONTACT, FEMALE AWG26-28
2pcs	1-568-613-11	o CONNECTOR, FEMALE, 2P
2pcs	3-621-124-00	o SPACER
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	3-734-721-01	o PLATE (SG-152), ORNAMENTAL
1pc	7-688-001-12	s W 2, MIDDLE
C5	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C7	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C8	1-135-162-21	s TANTAL 33uF 10% 6.3V
C9	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C10	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C11	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C13	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C14	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C15	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C17	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C18	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C21	1-163-114-00	s CERAMIC, CHIP 75PF 5% 50V
C24	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C28	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C29	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C30	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C31	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C33	1-163-251-11	s CERAMIC 100PF 5% 50V
C34	1-163-251-11	s CERAMIC 100PF 5% 50V
C36	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C38	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C40	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C41	1-163-227-11	s CERAMIC 10PF 5% 50V
C42	1-163-119-00	s CERAMIC, CHIP 120PF 5% 50V
C43	1-163-251-11	s CERAMIC 100PF 5% 50V
C44	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C46	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C48	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C50	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C51	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C53	1-135-153-21	s TANTALUM 2.2uF 10% 20V
C55	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C56	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C57	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C58	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C59	1-162-637-11	s CERAMIC, CHIP 0.47uF 16V
C62	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C66	1-135-157-21	s TANTAL 10uF 10% 6.3V
C70	1-163-011-11	s CERAMIC, CHIP 0.0015uF 10% 50V
C83	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-914-11	s DIODE HZ4ALL
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-800-76	s DIODE 1SS226
D5	8-719-800-76	s DIODE 1SS226
D6	8-719-800-76	s DIODE 1SS226
D9	8-719-951-12	s DIODE HZ5BLL
D10	8-719-948-47	s DIODE HSW88AS

(SG-152P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D11	8-719-400-18	s DIODE MA152WK
D12	8-719-800-76	s DIODE 1SS226
D13	8-719-910-65	s DIODE HZ6B2L
D15	8-719-921-12	s DIODE HZ2BLL
D16	8-719-109-81	s DIODE RD4.7ES-B2
D17	8-719-800-76	s DIODE 1SS226
D18	8-719-104-34	s DIODE 1S2836
D19	8-719-800-76	s DIODE 1SS226
D20	8-719-400-18	s DIODE MA152WK
IC1	8-741-104-00	s IC BX-1040
IC2	8-759-101-12	s IC UPC311G2
IC3	8-752-335-47	s IC CXD1216M
IC4	8-759-300-71	s IC MC14053BF
IC5	8-759-906-54	s IC TL064CNS
IC6	8-759-038-15	s IC MC74HC4538AP
IC7	8-752-332-67	s IC CXD1217M
IC8	8-759-200-79	s IC TC4049BF
IC9	8-759-204-93	s IC TC50H001F
IC10	8-759-209-57	s IC TC4S69F
IC11	8-759-907-21	s IC CX-7969
IC12	8-759-009-04	s IC MC14050BF
IC13	8-759-906-54	s IC TL064CNS
IC14	8-759-632-07	s IC W5237L
IC15	8-759-300-71	s IC MC14053BF
IC17	8-759-906-54	s IC TL064CNS
IC18	8-759-209-57	s IC TC4S69F
IC19	8-759-209-57	s IC TC4S69F
IC20	8-759-209-57	s IC TC4S69F
IC21	8-759-973-99	s IC CXD1361M
IC25	8-759-112-66	s IC UPC812G2
L1	1-408-785-21	s CHIP 47uH
L2	1-408-785-21	s CHIP 47uH
L3	1-408-785-21	s CHIP 47uH
L4	1-408-781-00	s CHIP 22uH
L5	1-408-781-00	s CHIP 22uH
L6	1-408-785-21	s CHIP 47uH
L7	1-408-785-21	s CHIP 47uH
L8	1-408-785-21	s CHIP 47uH
L9	1-408-785-21	s CHIP 47uH
L10	1-408-785-21	s CHIP 47uH
L11	1-408-780-21	s INDUCTOR CHIP 18uH
LV1	1-410-619-11	s INDUCTOR, VAR 220uH
Q1	8-729-216-22	s TRANSISTOR 2SA1162
Q2	8-729-100-66	s TRANSISTOR 2SC1623
Q3	8-729-100-66	s TRANSISTOR 2SC1623
Q4	8-729-100-66	s TRANSISTOR 2SC1623
Q5	8-729-100-66	s TRANSISTOR 2SC1623
Q6	8-729-216-22	s TRANSISTOR 2SA1162
Q7	8-729-216-22	s TRANSISTOR 2SA1162
Q8	8-729-101-07	s TRANSISTOR 2SB798
Q9	8-729-807-50	s TRANSISTOR 2SD1623
Q10	8-729-101-07	s TRANSISTOR 2SB798
Q11	8-729-100-66	s TRANSISTOR 2SC1623
Q12	8-729-101-07	s TRANSISTOR 2SB798
Q13	8-729-216-22	s TRANSISTOR 2SA1162
Q16	8-729-100-66	s TRANSISTOR 2SC1623
Q19	8-729-100-66	s TRANSISTOR 2SC1623

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SG-152P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q20	8-729-100-66	s TRANSISTOR 2SC1623
Q21	8-729-216-22	s TRANSISTOR 2SA1162
Q22	8-729-216-22	s TRANSISTOR 2SA1162
R14	1-216-066-00	s METAL, CHIP 5.1K 5% 1/10W
R17	1-216-066-00	s METAL, CHIP 5.1K 5% 1/10W
R22	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R58	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R59	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R61	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R62	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R63	1-216-688-11	s METAL, CHIP 36K 0.5% 1/10W
R64	1-216-687-11	s METAL, CHIP 33K 0.5% 1/10W
R65	1-216-693-11	s METAL, CHIP 56K 0.5% 1/10W
R79	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R80	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R99	1-216-126-11	s METAL CHIP 1.6W 5% 1/10W
R110	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R137	1-216-697-11	s METAL, CHIP 82K 0.5% 1/10W
R138	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R139	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R140	1-216-679-11	s METAL, CHIP 15K 0.5% 1/10W
R141	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R147	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R151	1-216-690-11	s METAL, CHIP 43K 0.5% 1/10W
R153	1-216-104-00	s METAL, CHIP 200K 5% 1/10W
RV2	1-228-474-00	s RES, ADJ, METAL 10K
RV3	1-237-037-11	s RES, ADJ, METAL 20K
RV4	1-237-033-11	s RES, ADJ, METAL 1K
RV5	1-228-472-00	s RES, ADJ, METAL 2K
RV6	1-228-475-00	s RES, ADJ, METAL 20K
RV7	1-228-475-00	s RES, ADJ, METAL 20K
S2	1-553-925-00	s SWITCH, DIGITAL
S3	1-570-857-11	s SWITCH, SLIDE
X1	1-567-654-21	s OSCILLATOR, CRYSTAL 17.734475MHz

SG-157P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7520-489-A	o MOUNTED CIRCUIT BOARD, SG-157P
C76	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C77	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C80	1-135-156-21	s TANTAL 6.8uF 10% 6.3V
C86	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
CN1	1-565-151-11	o CONNECTOR, 4P, MALE
CN2	1-568-622-11	o CONNECTOR, MAIL, 2P
CN3	1-568-622-11	o CONNECTOR, MAIL, 2P
IC22	8-759-100-94	s IC UPC358G2
IC23	8-759-300-71	s IC MC14053BF
IC24	8-759-902-88	s IC SN74LS123NS
Q24	8-729-100-66	s TRANSISTOR 2SC1623
R122	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R123	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R124	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R125	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R126	1-216-674-11	s METAL, CHIP 9.1K 0.5% 1/10W
R127	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R128	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R129	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R130	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R131	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R132	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R133	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R134	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R135	1-216-685-11	s METAL, CHIP 27K 0.5% 1/10W
R136	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
RV8	1-237-037-11	s RES, ADJ, METAL 20K
S4	1-553-510-00	s SWITCH, SLIDE

SR-40 BOARD

Ref. No. or Q'ty	Part No.	SP Description
PD1	8-719-948-58	s PHOTO SENSOR GP2S07B
PD2	8-719-948-58	s PHOTO SENSOR GP2S07B
PD3	8-719-948-58	s PHOTO SENSOR GP2S07B
PD4	8-719-948-58	s PHOTO SENSOR GP2S07B
1pc	A-6754-072-A	o MOUNTED CIRCUIT BOARD, SR-40
1pc	1-625-894-11	o PRINTED CIRCUIT BOARD, FL-53 FLEXIB
Q1	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q2	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q3	8-729-100-67	s TRANSISTOR 2SC1623-L7
Q4	8-729-100-67	s TRANSISTOR 2SC1623-L7

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SV-97AP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6715-438-A	o MOUNTED CIRCUIT BOARD, SV-97AP
1pc	3-724-715-01	o PLATE (SV-97), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C2	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C3	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C4	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C5	1-162-638-11	s CERAMIC, CHIP 1uF 16V
C19	1-163-251-11	s CERAMIC 100PF 5% 50V
C20	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C21	1-163-251-11	s CERAMIC 100PF 5% 50V
C23	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C26	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C27	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C28	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C29	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C71	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C73	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C74	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C82	1-164-004-11	s CERAMIC, CHIP 0.1uF 10% 25V
C91	1-109-893-11	s ELECT 39uF 20% 50V
C95	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C97	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C101	1-163-075-00	s CERAMIC, CHIP 0.047uF 50V
C103	1-110-607-11	s ELECT 82uF 20% 35V
C105	1-124-943-11	s ELECT 39 20% 25V
C106	1-163-012-00	s CERAMIC, CHIP 0.0018uF 10% 50V
C121	1-163-263-11	s CERAMIC 330PF 5% 50V
C131	1-163-809-11	s CERAMIC, CHIP 0.047uF 10% 25V
C135	1-124-943-11	s ELECT 39 20% 25V
C136	1-163-012-00	s CERAMIC, CHIP 0.0018uF 10% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-397-21	o CONNECTOR, 14P, MALE
D1	8-719-800-76	s DIODE 1SS226
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-800-76	s DIODE 1SS226
D4	8-719-800-76	s DIODE 1SS226
D5	8-719-123-85	s DIODE 1SS304
D7	8-719-981-01	s DIODE ERA81-004
D8	8-719-981-01	s DIODE ERA81-004
IC1	8-752-814-54	s IC CXP80116-649Q
IC2	8-759-100-96	s IC UPC4558G2
IC3	8-759-981-65	s IC LM2903M
IC4	8-759-100-96	s IC UPC4558G2
IC5	8-759-100-96	s IC UPC4558G2
IC6	8-759-100-94	s IC UPC358G2
IC7	8-759-981-65	s IC LM2903M
IC9	8-759-300-71	s IC MC14053BF
IC10	8-759-009-11	s IC MC14070BF
IC11	8-759-008-82	s IC MC14013BF
IC12	8-759-009-51	s IC MC14538BF
IC14	8-759-300-71	s IC MC14053BF
IC15	8-759-981-65	s IC LM2903M
IC16	8-759-100-94	s IC UPC358G2
IC17	8-759-981-65	s IC LM2903M
IC18	8-759-100-94	s IC UPC358G2

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC19	8-759-981-65	s IC LM2903M
IC22	8-759-209-69	s IC TC4S11F
L1	1-424-055-11	s COIL, CHOKE
L2	1-424-055-11	s COIL, CHOKE
L4	1-408-789-21	s CHIP 100uH
L5	1-408-789-21	s CHIP 100uH
L6	1-421-801-21	s COIL, CHOKE 60uH
Q1	8-729-117-32	s TRANSISTOR 2SC4177
Q2	8-729-209-07	s TRANSISTOR 2SC4213-B
Q3	8-729-209-01	s TRANSISTOR 2SB907
Q4	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q5	8-729-807-50	s TRANSISTOR 2SD1623
Q6	8-729-209-01	s TRANSISTOR 2SB907
Q7	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q8	8-729-807-50	s TRANSISTOR 2SD1623
Q9	8-729-901-46	s TRANSISTOR DTA114YK
Q10	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R2	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R3	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R4	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R5	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R6	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R7	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R8	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R9	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R10	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R11	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R12	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R13	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R14	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R15	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R16	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R17	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R21	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R22	1-216-851-11	s METAL, CHIP 330K 5% 1/16W
R23	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R24	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R29	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R30	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R31	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R32	1-216-853-11	s METAL, CHIP 470K 5% 1/16W
R33	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R34	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R35	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R36	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R37	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R38	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R39	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R40	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R43	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R44	1-216-857-11	s METAL, CHIP 1M 5% 1/16W
R45	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R46	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R48	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R50	1-216-864-11	s METAL, CHIP 0-OHM
R51	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R52	1-216-851-11	s METAL, CHIP 330K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R53	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R54	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R55	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R56	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R57	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R58	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R59	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R60	1-216-847-11 s	METAL, CHIP 150K 5% 1/16W
R61	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R62	1-216-857-11 s	METAL, CHIP 1M 5% 1/16W
R63	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R64	1-216-686-11 s	METAL, CHIP 30K 0.5% 1/10W
R65	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R66	1-216-649-11 s	METAL, CHIP 820 0.5% 1/10W
R67	1-216-846-11 s	METAL, CHIP 120K 5% 1/16W
R68	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R69	1-216-854-11 s	METAL, CHIP 560K 5% 1/16W
R70	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R71	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R72	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R74	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R75	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R81	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R82	1-216-835-11 s	METAL, CHIP 15K 5% 1/16W
R83	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R84	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R85	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R87	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R88	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R89	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R90	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R91	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R92	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R93	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R101	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R102	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R103	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R104	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R105	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R106	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R107	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R108	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R109	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R110	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
R111	1-216-836-11 s	METAL, CHIP 18K 5% 1/16W
R112	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R113	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R114	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R115	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W
R116	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R121	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R122	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R123	1-216-854-11 s	METAL, CHIP 560K 5% 1/16W
R124	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R125	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R131	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R132	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R133	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R134	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W

(SV-97AP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R135	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R136	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R137	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R138	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R139	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R140	1-216-843-11 s	METAL, CHIP 68K 5% 1/16W
R141	1-216-836-11 s	METAL, CHIP 18K 5% 1/16W
R142	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R143	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R144	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R145	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W
R146	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R151	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R152	1-216-864-11 s	METAL, CHIP 0-OHM
R153	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R154	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R155	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R156	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R157	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R158	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R159	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R160	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R161	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R162	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R163	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R164	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R165	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R166	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R167	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R168	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R169	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R170	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R171	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R172	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R173	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R174	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R175	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R176	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R177	1-216-864-11 s	METAL, CHIP 0-OHM
R178	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R180	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R181	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R182	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R183	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R184	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R185	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R186	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R187	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R188	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R189	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R190	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R191	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R192	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R193	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R194	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R195	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R196	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R197	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R198	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SV-97AP BOARD)

Ref. No. or Q' ty	Part No.	SP Description
R199	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R301	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R302	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
RV1	1-230-871-11 s	RES, ADJ, METAL 22K
RV2	1-230-871-11 s	RES, ADJ, METAL 22K
RV3	1-230-875-21 s	RES, ADJ, METAL 220K
RV4	1-230-875-21 s	RES, ADJ, METAL 220K
RV5	1-230-875-21 s	RES, ADJ, METAL 220K
RV6	1-230-873-11 s	RES, ADJ, METAL 47K
RV7	1-230-875-21 s	RES, ADJ, METAL 220K
X1	1-577-076-11 s	CRYSTAL, 16.000MHz

SW-220 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-7520-307-A o	MOUNTED CIRCUIT BOARD, SW-220
1pc	1-563-088-11 o	CONTACT, FEMALE, AWG24-30
1pc	1-563-869-11 o	CONTACT, FEMALE, AWG26-30
CN1	1-562-150-11 s	HOUSING, 5P
CN2	1-506-475-11 o	CONNECTOR, 10P, MALE
CN2	1-562-743-11 o	HOUSING, 10P
CN54	1-563-876-11 o	HOUSING, 16P
D1	8-719-820-58 s	DIODE 1SS177
D2	8-719-820-58 s	DIODE 1SS177
S1	1-554-355-00 s	SWITCH, TOGGLE
S2	1-554-400-00 s	SWITCH, TOGGLE
S3	1-554-400-00 s	SWITCH, TOGGLE
S4	1-554-356-00 s	SWITCH, TOGGLE
S5	1-553-856-00 s	SWITCH, TACTILE

SW-260A BOARD (Serial No. 41954 through 43999)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-562-738-11 o	HOUSING, 5P
1pc	1-563-869-11 o	CONTACT, FEMALE, AWG26-30
1pc	1-563-871-11 o	HOUSING 6P
1pc	1-625-088-13 o	PRINTED CIRCUIT BOARD, SW-260A
CN2	1-565-149-11 o	PIN, CONNECTOR (ANGLE) 2P
D1	8-719-800-76 s	DIODE 1SS226
S1	1-570-984-11 s	SWITCH, TOGGLE
S2	1-570-985-11 s	SWITCH, TOGGLE
S3	1-570-985-11 s	SWITCH, TOGGLE

SW-291 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-625-555-11 o	PRINTED CIRCUIT BOARD, SW-291
CN1	1-506-481-11 o	CONNECTOR, 2P, MALE
D1	8-719-902-27 s	LED EBR3402S, RED
SW1	1-570-608-11 s	SWITCH, TOGGLE

SW-357 BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-629-570-11 o	PRINTED CIRCUIT BOARD, SW-357
CN1	1-506-484-11 o	CONNECTOR, 5P, MALE
CN2	1-506-482-11 o	CONNECTOR, 3P, MALE
R1	1-249-405-11 s	CARBON 100 5% 1/4W
S1	1-554-395-00 s	SWITCH, TOGGLE
S2	1-554-396-00 s	SWITCH, TOGGLE
S3	1-570-282-21 s	SWITCH, KEY BOARD

SW-562 BOARD (Serial No. 44001 and higher)

Ref. No. or Q' ty	Part No.	SP Description
1pc	1-564-832-11 o	CONTACT
1pc	1-580-579-11 o	HOUSING, 6P
5pcs	1-580-599-11 o	CONTACT, FEMALE, AWG26-30
1pc	1-643-709-11 o	PRINTED CIRCUIT BOARD, SW-562
CN2	1-565-149-11 o	PIN, CONNECTOR (ANGLE) 2P
D1	8-719-800-76 s	DIODE 1SS123
S1	1-570-984-11 s	SWITCH, TOGGLE
S2	1-570-985-11 s	SWITCH, TOGGLE
S3	1-570-985-11 s	SWITCH, TOGGLE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SY-117CP BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6717-577-A	o MOUNTED CIRCUIT BOARD, SY-117CP
1pc	3-724-714-01	o PLATE (SY-117), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C4	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C5	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C6	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C7	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C8	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C11	1-127-491-00	s ELECTSOLID 20 10V
C12	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C13	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C14	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C15	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C16	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C17	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
C18	1-162-995-11	s CERAMIC, CHIP 0.022uF 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-388-11	s CONNECTOR, 8P, MALE
D1	8-719-123-85	s DIODE 1SS304
IC1	8-752-815-64	s IC CXP80116-668Q
IC3	8-759-009-51	s IC MC14538BF
IC4	8-759-940-45	s IC S-8054HN-CB
IC5	8-759-925-80	s IC SN74HC14NS
IC6	8-759-927-29	s IC SN74HC004ANS
IC7	8-759-927-46	s IC SN74HC00ANS
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-905-12	s TRANSISTOR DTA144EU
Q3	8-729-907-00	s TRANSISTOR DTC114EU
Q4	8-729-907-00	s TRANSISTOR DTC114EU
Q5	8-729-907-00	s TRANSISTOR DTC114EU
Q6	8-729-905-18	s TRANSISTOR DTC144EU
Q7	8-729-905-18	s TRANSISTOR DTC144EU
Q8	8-729-117-32	s TRANSISTOR 2SC4177
Q9	8-729-907-00	s TRANSISTOR DTC114EU
R1	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R2	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R3	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R4	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R5	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R6	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R7	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R8	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R9	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R10	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R11	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R12	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R13	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R14	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R15	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R16	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R17	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R18	1-216-864-11	s METAL, CHIP 0-OHM
R29	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R30	1-216-821-11	s METAL, CHIP 1K 5% 1/16W

(SY-117CP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R31	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R32	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R33	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R34	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R35	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R36	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R37	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R38	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R39	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R40	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R43	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R44	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R45	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R46	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R47	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R48	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R49	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R50	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R51	1-218-303-11	s METAL, CHIP 10K 1% 1/16W
R52	1-218-306-11	s METAL CHIP 100K 1% 1/16W
R53	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R54	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R55	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R56	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R57	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R58	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R59	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R60	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R61	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R62	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R63	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R64	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R65	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R66	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R67	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R68	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R69	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R70	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R71	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R72	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R73	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R74	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R75	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R76	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R77	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R78	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R79	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R80	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R81	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R82	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R83	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R84	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R85	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R86	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R87	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R88	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R89	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R90	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R91	1-216-841-11	s METAL, CHIP 47K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(SY-117CP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R92	1-216-813-11 s	METAL, CHIP 220 5% 1/16W
R93	1-216-813-11 s	METAL, CHIP 220 5% 1/16W
R94	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R95	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R96	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R97	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R98	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R100	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R102	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R103	1-216-819-11 s	METAL, CHIP 680 5% 1/16W
R104	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R105	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R106	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R107	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R201	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R203	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R205	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R207	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R211	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R213	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R215	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R217	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R219	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R221	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R223	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R225	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R226	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R227	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
S1	1-570-374-12 s	SWITCH, SLIDE
X1	1-567-962-11 s	CRYSTAL 8MHz

TB-5 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6725-604-A o	MOUNTED CIRCUIT BOARD, TB-5
1pc	3-729-013-41 s	SCREW(M1.4X3.5), WASHERHEAD(+P)
C1	1-163-011-11 s	CERAMIC, CHIP 0.0015uF 10% 50V
C3	1-135-157-21 s	TANTAL 10uF 10% 6.3V
C5	1-163-263-11 s	CERAMIC 330PF 5% 50V
C11	1-163-011-11 s	CERAMIC, CHIP 0.0015uF 10% 50V
C13	1-135-157-21 s	TANTAL 10uF 10% 6.3V
C27	1-163-139-00 s	CERAMIC, CHIP 820PF 5% 50V
C28	1-135-166-21 s	TANTALUM, CHIP 47uF 10% 10V
C31	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
C32	1-135-161-21 s	TANTALUM, CHIP 22uF 10% 10V
C45	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C46	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
C51	1-126-394-11 s	ELECT, CHIP 10uF 20% 16V
CN1	1-506-730-11 o	CONNECTOR, 40P, MALE
CN2	1-566-526-11 s	CONNECTOR, 10P
CN3	1-565-339-11 s	CONNECTOR, 10P, FEMALE
CN5	1-566-521-11 s	CONNECTOR, 5P
CN6	1-506-471-11 o	CONNECTOR, 6P, MALE
CN7	1-565-340-11 s	CONNECTOR, 6P, FEMALE
D21	8-719-123-85 s	DIODE 1SS304
D51	8-719-106-88 s	DIODE RD15W-B1
FB1	1-543-309-21 s	BEAD, FERRITE
FB2	1-543-309-21 s	BEAD, FERRITE
IC1	8-759-111-56 s	IC UPC4572G2
IC2	8-759-906-53 s	IC TL062CPS
IC21	8-759-209-15 s	IC TC4SU69F
IC22	8-759-300-71 s	IC MC14053BF
IC23	8-759-111-56 s	IC UPC4572G2
Q21	8-729-209-07 s	TRANSISTOR 2SC4213-B
Q22	8-729-117-32 s	TRANSISTOR 2SC4177
Q23	8-729-117-16 s	TRANSISTOR 2SA1611-M6
Q51	8-729-106-68 s	TRANSISTOR 2SC1615A-GP
Q52	8-729-109-44 s	TRANSISTOR 2SK94
RV1	1-228-475-00 s	RES, ADJ, METAL 20K
RV2	1-228-475-00 s	RES, ADJ, METAL 20K
RV11	1-228-475-00 s	RES, ADJ, METAL 20K
RV12	1-228-475-00 s	RES, ADJ, METAL 20K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

TC-48AP/48BP BOARD

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-6713-372-A	o MOUNTED CIRCUIT BOARD, TC-48AP Serial No. UP TO 42095
1pc	A-8271-734-A	o MOUNTED CIRCUIT BOARD, TC-48BP Serial No. 42096 and higher
1pc	3-701-748-00	o CLAMP
BT1	1-528-292-11	o BATTERY, SUPER LITHIUM
C1	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C3	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C4	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C6	1-126-412-11	s ELECT 220uF 20% 4V
C7	1-126-402-11	s ELECT, CHIP 2.2uF 20% 50V
C8	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C9	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C10	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C103	1-126-403-11	s ELECT 3.3uF 20% 50V
C104	1-126-405-11	s ELECT 10uF 20% 50V
C105	1-126-405-11	s ELECT 10uF 20% 50V
C106	1-163-227-11	s CERAMIC 10PF 5% 50V
C107	1-163-227-11	s CERAMIC 10PF 5% 50V
C108	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C109	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C111	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C112	1-135-157-21	s TANTAL 10uF 10% 6.3V
C113	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C115	1-135-157-21	s TANTAL 10uF 10% 6.3V
C203	1-126-403-11	s ELECT 3.3uF 20% 50V
C204	1-126-405-11	s ELECT 10uF 20% 50V
C205	1-126-405-11	s ELECT 10uF 20% 50V
C206	1-163-227-11	s CERAMIC 10PF 5% 50V
C207	1-163-227-11	s CERAMIC 10PF 5% 50V
C208	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C209	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C211	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C212	1-135-157-21	s TANTAL 10uF 10% 6.3V
C213	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C214	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C215	1-135-157-21	s TANTAL 10uF 10% 6.3V
C303	1-163-251-11	s CERAMIC 100PF 5% 50V
C304	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C305	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C307	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C403	1-163-251-11	s CERAMIC 100PF 5% 50V
C404	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C405	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C407	1-135-180-21	s TANTAL 3.3uF 20% 6.3V
C517	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C518	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C519	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C520	1-125-447-11	s DOUBLE LAYERS 1FARAD 5.5V
C522	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C523	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C524	1-163-235-11	s CERAMIC 22PF 5% 50V
C525	1-163-235-11	s CERAMIC 22PF 5% 50V
C528	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C529	1-163-245-11	s CERAMIC 56PF 5% 50V
C530	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C531	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C532	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V

(TC-48AP/48BP BOARD)

Ref. No. or Q' ty	Part No.	SP Description
C537	1-135-073-00	s TANTALUM, CHIP 0.33uF 10% 35V
C547	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C556	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C557	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C558	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C559	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C560	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C566	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C567	1-124-471-00	s ELECT 1000uF 20% 6.3V
C570	1-127-485-00	s ELECT (SOLID) 33uF 20% 6.3V
CN1	1-566-528-21	s CONNECTOR, FPC (ZIF) 12P
CN2	1-566-536-11	s CONNECTOR, 20P
CN3	1-566-536-11	s CONNECTOR, 20P
CN10	1-506-485-11	o CONNECTOR, 6P, MALE
CN11	1-506-481-11	o CONNECTOR, 2P, MALE
D101	8-719-800-76	s DIODE 1SS226
D102	8-719-800-76	s DIODE 1SS226
D103	8-719-941-23	s DIODE DA204U
D104	8-719-123-85	s DIODE 1SS304
D201	8-719-800-76	s DIODE 1SS226
D202	8-719-800-76	s DIODE 1SS226
D203	8-719-941-23	s DIODE DA204U
D301	8-719-941-23	s DIODE DA204U
D401	8-719-941-23	s DIODE DA204U
D508	8-719-938-72	s DIODE SB01-05CP
D511	8-719-941-86	s DIODE DAN202U
D514	8-719-941-86	s DIODE DAN202U
D515	8-719-941-86	s DIODE DAN202U
D522	8-719-902-27	s LED EBR3402S, RED
D523	8-719-941-86	s DIODE DAN202U
D524	8-719-938-72	s DIODE SB01-05CP
D525	8-719-938-72	s DIODE SB01-05CP
D526	8-719-123-85	s DIODE 1SS304
D527	8-719-123-85	s DIODE 1SS304
D528	8-719-123-85	s DIODE 1SS304
D529	8-719-123-85	s DIODE 1SS304
D530	8-719-938-72	s DIODE SB01-05CP
IC1	8-759-700-50	s IC NJM386M
IC1	8-759-942-44	s IC CXD1128Q
IC101	8-759-981-54	s IC RC2041MD
IC102	8-759-981-54	s IC RC2041MD
IC103	8-759-908-16	s IC TL072CPS
IC201	8-759-981-54	s IC RC2041MD
IC202	8-759-981-54	s IC RC2041MD
IC203	8-759-908-16	s IC TL072CPS
IC301	8-759-300-71	s IC MC14053BF
IC302	8-759-906-53	s IC TL062CPS
IC303	8-759-908-16	s IC TL072CPS
IC401	8-759-300-71	s IC MC14053BF
IC403	8-759-908-16	s IC TL072CPS
IC501	8-759-944-79	s IC CXD1132Q
IC502	8-759-146-73	s IC CXD8042Q-502
IC503	8-752-810-17	s IC CXP80116-617Q
IC504	8-759-112-06	s IC UPC78N05H
IC505	8-759-511-37	s IC RH5VA28CA
IC506	8-759-008-82	s IC MC14013BF
IC507	8-759-009-12	s IC MC14071BF
IC508	8-759-300-71	s IC MC14053BF

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(TC-48AP/48BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
IC509	8-759-009-02	s IC MC14046BF
IC510	8-759-008-36	s IC MC74HC4049F
IC511	8-759-009-10	s IC MC14069UBF
IC512	8-759-008-82	s IC MC14013BF
IC513	8-759-009-51	s IC MC14538BF
IC514	8-759-209-15	s IC TC4SU69F
IC515	8-752-330-59	s IC CXK1011P
IC516	1-808-502-11	s LCD MODULE LT4115
IC517	8-759-009-12	s IC MC14071BF
IC518	8-759-939-41	s IC S-81230AG-RB
IC519	8-759-209-15	s IC TC4SU69F
IC520	8-759-209-97	s IC TC4S81F
IC521	8-759-209-54	s IC TC4S01F
IC522	8-759-209-15	s IC TC4SU69F
IC523	8-759-209-90	s IC TC4S71F
IC701	8-759-981-69	s IC LM2904M
IC702	8-759-908-16	s IC TL072CPS
IC703	8-759-939-41	s IC S-81230AG-RB
L1	1-410-729-21	s INDUCTOR, CHIP 1mH
L101	1-408-776-00	s INDUCTOR CHIP 8.2uH
L102	1-408-776-00	s INDUCTOR CHIP 8.2uH
L201	1-408-776-00	s INDUCTOR CHIP 8.2uH
L202	1-408-776-00	s INDUCTOR CHIP 8.2uH
PH1	1-808-252-11	s PHOTOCOUPLER M-30
Q101	8-729-271-31	s TRANSISTOR 2SC2713G
Q102	8-729-117-32	s TRANSISTOR 2SC4177
Q103	8-729-905-18	s TRANSISTOR DTC144EU
Q104	8-729-117-32	s TRANSISTOR 2SC4177
Q105	8-729-117-32	s TRANSISTOR 2SC4177
Q106	8-729-117-32	s TRANSISTOR 2SC4177
Q107	8-729-117-32	s TRANSISTOR 2SC4177
Q201	8-729-271-31	s TRANSISTOR 2SC2713G
Q202	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-905-18	s TRANSISTOR DTC144EU
Q204	8-729-117-32	s TRANSISTOR 2SC4177
Q205	8-729-117-32	s TRANSISTOR 2SC4177
Q206	8-729-117-32	s TRANSISTOR 2SC4177
Q207	8-729-117-32	s TRANSISTOR 2SC4177
Q501	8-729-905-18	s TRANSISTOR DTC144EU
Q502	8-729-905-18	s TRANSISTOR DTC144EU
Q503	8-729-907-00	s TRANSISTOR DTC114EU
Q504	8-729-905-18	s TRANSISTOR DTC144EU
Q509	8-729-905-18	s TRANSISTOR DTC144EU
Q510	8-729-106-68	s TRANSISTOR 2SC1615A-GP
Q511	8-729-117-16	s TRANSISTOR 2SA1611-N6
Q512	8-729-905-18	s TRANSISTOR DTC144EU
Q701	8-729-905-18	s TRANSISTOR DTC144EU
Q702	8-729-117-32	s TRANSISTOR 2SC4177
R1	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R3	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R101	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R102	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R103	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R104	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R105	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R106	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R107	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R108	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W

(TC-48AP/48BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R110	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R111	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R112	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R113	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R114	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R115	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R116	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R117	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R118	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R119	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R120	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R121	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R123	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R125	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R126	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R128	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R129	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R130	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R131	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R132	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R133	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R135	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R136	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R137	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R138	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R139	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R140	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R141	1-216-677-11	s METAL, CHIP 12K 0.5% 1/10W
R143	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R201	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R202	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R203	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R204	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R205	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R206	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R207	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R208	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R210	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R211	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R212	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R213	1-216-638-11	s METAL, CHIP 300 0.5% 1/10W
R214	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R215	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R216	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R217	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R218	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R219	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R220	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R221	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R223	1-216-667-11	s METAL, CHIP 4.7K 0.5% 1/10W
R225	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R226	1-216-681-11	s METAL, CHIP 18K 0.5% 1/10W
R228	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R229	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R230	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R231	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R232	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R233	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R235	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(TC-48AP/48BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R236	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R237	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R238	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R239	1-216-682-11 s	METAL, CHIP 20K 0.5% 1/10W
R240	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
R241	1-216-677-11 s	METAL, CHIP 12K 0.5% 1/10W
R243	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R303	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R306	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R310	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R313	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R403	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R406	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R410	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R413	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R505	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R506	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R507	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R515	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R521	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R523	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R542	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R543	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R605	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R611	1-249-397-11 s	CARBON 22 5% 1/4W
R612	1-249-397-11 s	CARBON 22 5% 1/4W
R617	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R618	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R619	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R623	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R626	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R629	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R630	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R631	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
R632	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R639	1-249-397-11 s	CARBON 22 5% 1/4W
R641	1-249-393-11 s	CARBON 10 5% 1/4W
R642	1-249-393-11 s	CARBON 10 5% 1/4W
R644	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R653	1-247-895-00 s	CARBON 470K 5% 1/4W
R701	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R703	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
R708	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W
R709	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R711	1-216-699-11 s	METAL, CHIP 100K 0.5% 1/10W
R712	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W
R719	1-216-675-11 s	METAL, CHIP 10K 0.5% 1/10W
RV101	1-230-337-11 s	RES, VAR, CARBON 10K
RV201	1-230-337-11 s	RES, VAR, CARBON 10K
RV301	1-230-871-11 s	RES, ADJ, METAL 22K
RV302	1-230-871-11 s	RES, ADJ, METAL 22K
RV401	1-230-871-11 s	RES, ADJ, METAL 22K
RV402	1-230-871-11 s	RES, ADJ, METAL 22K
RV701	1-230-874-11 s	RES, ADJ, METAL 100K
RV702	1-230-869-11 s	RES, ADJ, METAL 4.7K
S101	1-571-087-11 s	SWITCH, SLIDE
S102	1-570-848-11 s	SWITCH, SLIDE
S103	1-571-275-11 s	SWITCH, SLIDE

(TC-48AP/48BP BOARD)

Ref. No. or Q'ty	Part No.	SP Description
S201	1-571-087-11 s	SWITCH, SLIDE
S202	1-570-848-11 s	SWITCH, SLIDE
S203	1-571-275-11 s	SWITCH, SLIDE
S501	1-570-834-11 s	SWITCH, SLIDE
S502	1-570-834-11 s	SWITCH, SLIDE
S503	1-570-472-11 s	SWITCH, KEY BOARD
S504	1-570-472-11 s	SWITCH, KEY BOARD
S505	1-570-472-11 s	SWITCH, KEY BOARD
S506	1-570-472-11 s	SWITCH, KEY BOARD
S508	1-570-834-11 s	SWITCH, SLIDE
S509	1-570-866-11 s	SWITCH, SLIDE
S510	1-570-860-11 s	SWITCH, SLIDE
S511	1-571-275-11 s	SWITCH, SLIDE
S513	1-570-472-11 s	SWITCH, KEY BOARD
S514	1-570-860-11 s	SWITCH, SLIDE
S515	1-571-273-11 s	SWITCH, DIGITAL
S516	1-571-273-11 s	SWITCH, DIGITAL
S517	1-571-275-11 s	SWITCH, SLIDE
S518	1-571-275-11 s	SWITCH, SLIDE
S701	1-570-855-11 s	SWITCH, SLIDE
X501	1-567-867-11 s	CRYSTAL, 14.500MHz
X502	1-567-812-11 s	RESONATOR, CERAMIC 12.288MHz
X503	1-578-741-11 s	VIBRATOR, CRYSTAL 31.25KHz
X504	1-577-076-11 s	CRYSTAL, 16.000MHz

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

VA-83 BOARD (Serial No. 41954 through 43999)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-7513-945-A	o MOUNTED CIRCUIT BOARD, VA-83
2pcs	1-568-613-11	o CONNECTOR, FEMALE, 2P
1pc	3-172-056-01	o PARTITION
3pcs	3-621-124-00	o SPACER
1pc	3-724-711-02	o PLATE (VA-62), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
2pcs	7-623-952-21	s WASHER 2.0, FIBER
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C2	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C3	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C12	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C13	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C14	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C16	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C20	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C21	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C22	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C23	1-163-235-11	s CERAMIC 22PF 5% 50V
C24	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C25	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C26	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C35	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C36	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C37	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C39	1-135-155-21	s TANTALUM, CHIP 4.7uF 10% 16V
C44	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C45	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C46	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C47	1-163-235-11	s CERAMIC 22PF 5% 50V
C48	1-135-161-21	s TANTALUM, CHIP 22uF 10% 10V
C49	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C50	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C59	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C60	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C61	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C68	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C69	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C70	1-135-166-21	s TANTALUM, CHIP 47uF 10% 10V
C71	1-163-235-11	s CERAMIC 22PF 5% 50V
C79	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C80	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C82	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C83	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C84	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C86	1-163-088-00	s CERAMIC, CHIP 5PF 50V
C88	1-163-263-11	s CERAMIC 330PF 5% 50V
C89	1-163-227-11	s CERAMIC 10PF 5% 50V
C92	1-162-901-11	s CERAMIC 0.1uF 10% 50V
C93	1-162-901-11	s CERAMIC 0.1uF 10% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-370-11	s CAP, CHIP TRIMMER
CV2	1-141-370-11	s CAP, CHIP TRIMMER
CV3	1-141-370-11	s CAP, CHIP TRIMMER
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-948-47	s DIODE HSM88AS

(VA-83 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
D5	8-719-800-76	s DIODE 1SS226
D6	8-719-948-47	s DIODE HSM88AS
D7	8-719-800-76	s DIODE 1SS226
D9	8-719-800-76	s DIODE 1SS226
D10	8-719-948-47	s DIODE HSM88AS
D13	8-719-104-34	s DIODE 1S2836
D14	8-719-948-47	s DIODE HSM88AS
D15	8-719-948-47	s DIODE HSM88AS
D16	8-719-948-47	s DIODE HSM88AS
FL1	1-409-427-11	s FILTER, TRAP 14.3MHz
FL2	1-409-427-11	s FILTER, TRAP 14.3MHz
FL3	1-409-427-11	s FILTER, TRAP 14.3MHz
IC1	8-759-988-42	s IC AD707JR
IC2	1-807-415-11	s IC BH-1210
IC3	1-808-806-11	s IC BH-1262
IC4	8-759-906-54	s IC TL064CNS
IC5	8-759-988-42	s IC AD707JR
IC6	1-807-415-11	s IC BH-1210
IC7	1-808-806-11	s IC BH-1262
IC8	8-759-988-42	s IC AD707JR
IC9	1-807-415-11	s IC BH-1210
IC10	1-808-806-11	s IC BH-1262
IC11	8-759-239-34	s IC TC74HC4538AF
IC12	8-759-300-71	s IC MC14053BF
IC13	8-759-906-53	s IC TL062CPS
IC14	8-759-205-78	s IC TC504013BF
IC15	1-808-253-13	s IC BH-1252
Q1	8-729-122-63	s TRANSISTOR 2SA1226
Q2	8-729-122-63	s TRANSISTOR 2SA1226
Q3	8-729-216-22	s TRANSISTOR 2SA1162
Q4	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q5	8-729-109-44	s TRANSISTOR 2SK94
Q6	8-729-109-44	s TRANSISTOR 2SK94
Q7	8-729-109-44	s TRANSISTOR 2SK94
Q8	8-729-109-44	s TRANSISTOR 2SK94
Q9	8-729-109-44	s TRANSISTOR 2SK94
Q10	8-729-109-44	s TRANSISTOR 2SK94
Q11	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q12	8-729-122-63	s TRANSISTOR 2SA1226
Q13	8-729-122-63	s TRANSISTOR 2SA1226
Q14	8-729-216-22	s TRANSISTOR 2SA1162
Q15	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q16	8-729-109-44	s TRANSISTOR 2SK94
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-109-44	s TRANSISTOR 2SK94
Q19	8-729-109-44	s TRANSISTOR 2SK94
Q20	8-729-109-44	s TRANSISTOR 2SK94
Q21	8-729-109-44	s TRANSISTOR 2SK94
Q22	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q23	8-729-122-63	s TRANSISTOR 2SA1226
Q24	8-729-122-63	s TRANSISTOR 2SA1226
Q25	8-729-216-22	s TRANSISTOR 2SA1162
Q26	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q27	8-729-109-44	s TRANSISTOR 2SK94
Q28	8-729-109-44	s TRANSISTOR 2SK94
Q29	8-729-109-44	s TRANSISTOR 2SK94
Q30	8-729-109-44	s TRANSISTOR 2SK94
Q31	8-729-109-44	s TRANSISTOR 2SK94

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VA-83 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q32	8-729-109-44	s TRANSISTOR 2SK94
Q33	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q34	8-729-216-22	s TRANSISTOR 2SA1162
Q35	8-729-216-22	s TRANSISTOR 2SA1162
Q36	8-729-100-66	s TRANSISTOR 2SC1623
Q44	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q45	8-729-100-66	s TRANSISTOR 2SC1623
R1	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R4	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R6	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R16	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R17	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R18	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R19	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R22	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R24	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R34	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R39	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R44	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R45	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R48	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R49	1-216-090-00	s METAL CHIP 51K 5% 1/10W
R50	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R60	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R61	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R62	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R63	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R66	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R68	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R78	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R85	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R90	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R91	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R94	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R96	1-216-691-11	s METAL, CHIP 47K 0.5% 1/10W
R106	1-216-631-11	s METAL, CHIP 150 0.5% 1/10W
R107	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R108	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R109	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R112	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R114	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R126	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R131	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R136	1-216-675-11	s METAL, CHIP 10K 0.5% 1/10W
R146	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R173	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R174	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R175	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R178	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R181	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R182	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R183	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
RV1	1-228-472-00	s RES, ADJ, METAL 2K
RV2	1-237-037-11	s RES, ADJ, METAL 20K
RV3	1-237-036-11	s RES, ADJ, METAL 10K
RV4	1-228-475-00	s RES, ADJ, METAL 20K
RV5	1-228-472-00	s RES, ADJ, METAL 2K
RV6	1-237-037-11	s RES, ADJ, METAL 20K

(VA-83 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV7	1-237-036-11	s RES, ADJ, METAL 10K
RV8	1-228-475-00	s RES, ADJ, METAL 20K
RV9	1-228-472-00	s RES, ADJ, METAL 2K
RV10	1-237-037-11	s RES, ADJ, METAL 20K
RV11	1-237-036-11	s RES, ADJ, METAL 10K
RV12	1-228-475-00	s RES, ADJ, METAL 20K
RV14	1-237-042-11	s RES, ADJ, METAL 1M
RV15	1-237-034-11	s RES, ADJ, METAL 2K
RV16	1-237-034-11	s RES, ADJ, METAL 2K
RV17	1-237-034-11	s RES, ADJ, METAL 2K
RV18	1-237-036-11	s RES, ADJ, METAL 10K
RV19	1-237-036-11	s RES, ADJ, METAL 10K
RV20	1-237-036-11	s RES, ADJ, METAL 10K
RV21	1-237-037-11	s RES, ADJ, METAL 20K
RV22	1-237-037-11	s RES, ADJ, METAL 20K
S1	1-570-857-11	s SWITCH, SLIDE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

VA-168 BOARD (Serial No. 44001 and higher)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8274-901-A	o MOUNTED CIRCUIT BOARD, VA-168
2pcs	1-568-613-11	o CONNECTOR, FEMALE, 2P
1pc	3-172-056-02	o PARTITION
8pcs	3-621-124-00	o SPACER
1pc	3-724-711-02	o PLATE (VA-62), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5)(TYPE 1)
2pcs	7-623-952-21	s WASHER 2.0, FIBER
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-135-210-11	s TANTALUM, CHIP 47uF 20% 10V
C2	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C3	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C4	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C6	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C12	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C13	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C14	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C15	1-164-156-11	s CERAMIC 0.1uF 25V
C16	1-163-241-11	s CERAMIC, CHIP 39PF 5% 50V
C19	1-164-156-11	s CERAMIC 0.1uF 25V
C20	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C21	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C22	1-135-166-21	s TANTALUM, CHIP 47uF 20% 10V
C23	1-163-235-11	s CERAMIC 22PF 5% 50V
C24	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C25	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C26	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C27	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C29	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C35	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C36	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C37	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C38	1-164-156-11	s CERAMIC 0.1uF 25V
C39	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C40	1-163-243-11	s CERAMIC 47PF 5% 50V
C44	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C45	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C46	1-135-166-21	s TANTALUM, CHIP 47uF 20% 10V
C47	1-163-235-11	s CERAMIC 22PF 5% 50V
C48	1-135-210-11	s TANTALUM, CHIP 4.7uF 20% 10V
C49	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C50	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C51	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C53	1-164-232-11	s CERAMIC 0.01uF 10% 50V
C59	1-126-320-11	s ELECT, NONPOLAR 10uF 20% 16V
C60	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C61	1-135-092-21	s TANTALUM, CHIP 3.3uF 20% 16V
C64	1-163-243-11	s CERAMIC 47PF 5% 50V
C66	1-164-156-11	s CERAMIC 0.1uF 25V
C68	1-135-089-21	s TANTALUM, CHIP 6.8uF 10% 20V
C69	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C70	1-135-166-21	s TANTALUM, CHIP 47uF 20% 10V
C71	1-163-235-11	s CERAMIC 22PF 5% 50V
C74	1-164-156-11	s CERAMIC 0.1uF 25V
C79	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C80	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C82	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V

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Ref. No. or Q'ty	Part No.	SP Description
C83	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C84	1-135-159-21	s TANTALUM, CHIP 10uF 20% 20V
C85	1-163-263-11	s CERAMIC 330PF 5% 50V
C86	1-163-133-00	s CERAMIC, CHIP 470PF 5% 50V
C89	1-162-915-11	s CERAMIC 10PF 0.5% 50V
C90	1-164-469-11	s CERAMIC 510PF 5% 50V
C91	1-163-130-00	s CERAMIC 360PF 5% 50V
C92	1-163-134-00	s CERAMIC 510PF 5% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CV1	1-141-448-21	s CAP, CHIP TRIMMER
CV2	1-141-448-21	s CAP, CHIP TRIMMER
CV3	1-141-370-11	s CAP, CHIP TRIMMER
D1	8-719-800-76	s DIODE 1SS123
D2	8-719-800-76	s DIODE 1SS123
D3	8-719-948-47	s DIODE HSM88AS
D5	8-719-800-76	s DIODE 1SS123
D6	8-719-948-47	s DIODE HSM88AS
D7	8-719-800-76	s DIODE 1SS123
D9	8-719-800-76	s DIODE 1SS123
D10	8-719-948-47	s DIODE HSM88AS
D14	8-719-948-47	s DIODE HSM88AS
D15	8-719-948-47	s DIODE HSM88AS
D16	8-719-948-47	s DIODE HSM88AS
DL1	1-415-745-11	s DELAY LINE
FL1	1-409-427-11	s FILTER, TRAP 14.3MHz
FL2	1-409-427-11	s FILTER, TRAP 14.3MHz
FL3	1-409-427-11	s FILTER, TRAP 14.3MHz
IC1	8-759-988-42	s IC AD707JR
IC2	1-807-415-11	s IC BH-1210
IC3	1-808-806-11	s IC BH-1262
IC4	8-759-906-54	s IC TL064CNS
IC5	8-759-988-42	s IC AD707JR
IC6	1-807-415-11	s IC BH-1210
IC7	1-808-806-11	s IC BH-1262
IC8	8-759-988-42	s IC AD707JR
IC9	1-807-415-11	s IC BH-1210
IC10	1-808-806-11	s IC BH-1262
IC11	8-759-239-34	s IC TC74HC4538AF
IC12	8-759-300-71	s IC MC14053BF
IC15	1-809-026-11	s IC BH-1263
IC16	8-759-209-57	s IC TC4S69F
IC17	8-759-058-62	s IC TC7S08FU
Q1	8-729-403-32	s TRANSISTOR XN6534
Q2	8-729-403-29	s TRANSISTOR XN6435
Q3	8-729-403-29	s TRANSISTOR XN6435
Q4	8-729-403-29	s TRANSISTOR XN6435
Q5	8-729-109-44	s TRANSISTOR 2SK94
Q6	8-729-109-44	s TRANSISTOR 2SK94
Q7	8-729-109-44	s TRANSISTOR 2SK94
Q8	8-729-109-44	s TRANSISTOR 2SK94
Q9	8-729-109-44	s TRANSISTOR 2SK94
Q10	8-729-109-44	s TRANSISTOR 2SK94
Q11	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q12	8-729-122-02	s TRANSISTOR 2SA1226

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VA-168 BOARD)

(VA-168 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q13	8-729-403-29	s TRANSISTOR XN6435
Q14	8-729-403-29	s TRANSISTOR XN6435
Q15	8-729-403-29	s TRANSISTOR XN6435
Q16	8-729-109-44	s TRANSISTOR 2SK94
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-109-44	s TRANSISTOR 2SK94
Q19	8-729-109-44	s TRANSISTOR 2SK94
Q20	8-729-109-44	s TRANSISTOR 2SK94
Q21	8-729-109-44	s TRANSISTOR 2SK94
Q22	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q23	8-729-403-32	s TRANSISTOR XN6534
Q24	8-729-403-29	s TRANSISTOR XN6435
Q25	8-729-403-29	s TRANSISTOR XN6435
Q26	8-729-403-29	s TRANSISTOR XN6435
Q27	8-729-109-44	s TRANSISTOR 2SK94
Q28	8-729-109-44	s TRANSISTOR 2SK94
Q29	8-729-109-44	s TRANSISTOR 2SK94
Q30	8-729-109-44	s TRANSISTOR 2SK94
Q31	8-729-109-44	s TRANSISTOR 2SK94
Q32	8-729-109-44	s TRANSISTOR 2SK94
Q33	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q34	8-729-216-22	s TRANSISTOR 2SA812
Q35	8-729-216-22	s TRANSISTOR 2SA812
Q36	8-729-120-28	s TRANSISTOR 2SC1623
Q45	8-729-120-28	s TRANSISTOR 2SC1623
Q51	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q52	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q53	8-729-175-72	s TRANSISTOR 2SC2757-T33
Q54	8-729-403-29	s TRANSISTOR XN-6435
R1	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R4	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R5	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R6	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R8	1-216-664-11	s METAL, CHIP 3.6K 0.5% 1/10W
R9	1-216-661-11	s METAL, CHIP 2.7K 0.5% 1/10W
R11	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W
R16	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R17	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R18	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R19	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R21	1-216-663-11	s METAL, CHIP 3.3K 0.5% 1/10W
R22	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R23	1-218-857-11	s RES, CHIP 1M 5% 1/16W
R24	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R25	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R26	1-218-720-11	s METAL, CHIP 15K 0.5% 1/16W
R27	1-218-664-11	s METAL, CHIP 68 0.5% 1/16W
R29	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R34	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R35	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R39	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R44	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R45	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R47	1-216-635-11	s METAL, CHIP 330 0.5% 1/10W
R48	1-216-680-11	s METAL, CHIP 330 0.5% 1/16W
R49	1-218-838-11	s METAL CHIP 330 0.5% 1/10W
R50	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W

Ref. No. or Q'ty	Part No.	SP Description
R51	1-218-855-11	s METAL, CHIP 1.5K 0.5% 1/16W
R52	1-218-855-11	s METAL, CHIP 1.5K 0.5% 1/16W
R53	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R55	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W
R60	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R61	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R62	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R63	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R65	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R66	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R67	1-216-857-11	s RES, CHIP 1M 5% 1/16W
R68	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R69	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R78	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R79	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R80	1-218-726-11	s METAL, CHIP 27K 0.5% 1/16W
R81	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R85	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R90	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R91	1-216-649-11	s METAL, CHIP 820 0.5% 1/10W
R94	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R95	1-216-635-11	s METAL, CHIP 330 0.5% 1/10W
R96	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R98	1-216-662-11	s METAL, CHIP 3K 0.5% 1/10W
R99	1-218-705-11	s METAL, CHIP 3.6K 0.5% 1/16W
R101	1-208-801-11	s METAL, CHIP 6.2K 0.5% 1/10W
R106	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R107	1-216-665-11	s METAL, CHIP 3.9K 0.5% 1/10W
R108	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R109	1-216-658-11	s METAL, CHIP 2K 0.5% 1/10W
R111	1-218-704-11	s METAL, CHIP 3.3K 0.5% 1/16W
R112	1-218-867-11	s METAL, CHIP 6.8K 0.5% 1/16W
R114	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R115	1-218-700-11	s METAL, CHIP 2.2K 0.5% 1/16W
R126	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R127	1-218-708-11	s METAL, CHIP 4.7K 0.5% 1/16W
R130	1-218-710-11	s METAL, CHIP 5.6K 0.5% 1/16W
R131	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R136	1-208-806-11	s METAL, CHIP 10K 0.5% 1/10W
R146	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R147	1-216-857-11	s RES, CHIP 1M 5% 1/16W
R148	1-218-740-11	s METAL, CHIP 100K 0.5% 1/16W
R172	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R173	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R174	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R175	1-211-969-11	s METAL, CHIP 10 0.5% 1/16W
R178	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R181	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R182	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R183	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R187	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R190	1-218-692-11	s METAL, CHIP 1K 0.5% 1/16W
R191	1-218-757-11	s METAL, CHIP 160K 0.5% 1/10W
R192	1-218-762-11	s METAL, CHIP 270K 0.5% 1/10W
R193	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R195	1-218-742-11	s METAL, CHIP 120K 0.5% 1/16W
R196	1-218-742-11	s METAL, CHIP 120K 0.5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VA-168 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R197	1-218-726-11	s METAL, CHIP 27K 0.5% 1/16W
R211	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R212	1-218-716-11	s METAL, CHIP 10K 0.5% 1/16W
R213	1-218-732-11	s METAL, CHIP 47K 0.5% 1/16W
R214	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R215	1-216-651-11	s METAL, CHIP 100K 0.5% 1/10W
R216	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R217	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R218	1-208-803-11	s METAL, CHIP 7.5K 0.5% 1/10W
R219	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R221	1-216-654-11	s METAL, CHIP 1.3K 0.5% 1/10W
R222	1-216-655-11	s METAL, CHIP 1.5K 0.5% 1/10W
R223	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
RV1	1-228-472-00	s RES, ADJ, METAL 2K
RV2	1-237-037-11	s RES, ADJ, METAL 20K
RV3	1-237-036-11	s RES, ADJ, METAL 10K
RV4	1-228-475-00	s RES, ADJ, METAL 20K
RV5	1-228-472-00	s RES, ADJ, METAL 2K
RV6	1-237-037-11	s RES, ADJ, METAL 20K
RV7	1-237-036-11	s RES, ADJ, METAL 10K
RV8	1-228-475-00	s RES, ADJ, METAL 20K
RV9	1-228-472-00	s RES, ADJ, METAL 2K
RV10	1-237-037-11	s RES, ADJ, METAL 20K
RV11	1-237-036-11	s RES, ADJ, METAL 10K
RV12	1-228-475-00	s RES, ADJ, METAL 20K
RV15	1-237-034-11	s RES, ADJ, METAL 2K
RV16	1-237-034-11	s RES, ADJ, METAL 2K
RV17	1-237-034-11	s RES, ADJ, METAL 2K
RV18	1-237-036-11	s RES, ADJ, METAL 10K
RV19	1-237-036-11	s RES, ADJ, METAL 10K
RV20	1-237-036-11	s RES, ADJ, METAL 10K
RV21	1-237-037-11	s RES, ADJ, METAL 20K
RV22	1-237-037-11	s RES, ADJ, METAL 20K
S1	1-570-857-11	s SWITCH, SLIDE
S2	1-572-446-21	s SWITCH, SLIDE

VDA-11P BOARD (Serial No.41954 through 44160)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6711-993-A	o MOUNTED CIRCUIT BOARD, VDA-11P
1pc	3-724-707-01	o PLATE (VDA-11), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C2	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C4	1-163-235-11	s CERAMIC 22PF 5% 50V
C6	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C8	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C16	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C17	1-163-251-11	s CERAMIC 100PF 5% 50V
C110	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C116	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C201	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C202	1-163-120-00	s CERAMIC, CHIP 130PF 5% 50V
C203	1-135-142-21	s TANTAL 22uF 20% 10V
C205	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C207	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C209	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C210	1-163-251-11	s CERAMIC 100PF 5% 50V
C212	1-163-120-00	s CERAMIC, CHIP 130PF 5% 50V
C214	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C219	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C220	1-135-149-21	s TANTALUM, CHIP 2.2uF 10% 10V
C221	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C225	1-163-245-11	s CERAMIC 56PF 5% 50V
C226	1-163-245-11	s CERAMIC 56PF 5% 50V
C227	1-135-142-21	s TANTAL 22uF 20% 10V
C228	1-163-227-11	s CERAMIC 10PF 5% 50V
C229	1-163-227-11	s CERAMIC 10PF 5% 50V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-388-11	s CONNECTOR, 8P, MALE
CNJ2	1-565-413-11	o PLUG, SHORTING
CV1	1-141-423-21	s CAR, TRIMMER 20PF
CV2	1-141-423-21	s CAR, TRIMMER 20PF
CV3	1-141-423-21	s CAR, TRIMMER 20PF
CV4	1-141-423-21	s CAR, TRIMMER 20PF
CV11	1-141-423-21	s CAR, TRIMMER 20PF
CV12	1-141-423-21	s CAR, TRIMMER 20PF
CV13	1-141-423-21	s CAR, TRIMMER 20PF
CV14	1-141-423-21	s CAR, TRIMMER 20PF
D201	8-719-123-85	s DIODE 1SS304
D301	8-719-105-82	s DIODE RD5. 1M-B2
FL1	1-236-021-11	s FILTER, LOW-PASS
FL2	1-236-126-12	s FILTER, LOW PASS
FL202	1-236-621-11	s FILTER, LOW PASS
FL203	1-236-621-11	s FILTER, LOW PASS
IC1	8-759-209-15	s IC TC4SU69F
IC2	8-741-152-41	s IC SBX1524-21
IC3	8-759-209-15	s IC TC4SU69F
IC101	8-759-209-15	s IC TC4SU69F
IC201	8-741-152-32	s IC SBX1523-03
IC301	8-759-230-99	s IC TC74HC4053AF
L1	1-408-789-21	s CHIP 100uH

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
L2	1-408-789-21	s CHIP 100uH
L3	1-408-777-00	s CHIP 10uH
L4	1-408-785-21	s CHIP 47uH
L101	1-408-789-21	s CHIP 100uH
L103	1-408-797-11	s CHIP 470uH
L104	1-408-797-11	s CHIP 470uH
L105	1-408-789-21	s CHIP 100uH
L106	1-408-789-21	s CHIP 100uH
L202	1-408-789-21	s CHIP 100uH
L203	1-408-785-21	s CHIP 47uH
L204	1-408-785-21	s CHIP 47uH
L205	1-408-789-21	s CHIP 100uH
L206	1-410-385-11	s INDUCTOR, CHIP 22uH
LV201	1-412-018-11	s COIL, VAR 5.6uH
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-122-63	s TRANSISTOR 2SA1226
Q4	8-729-122-63	s TRANSISTOR 2SA1226
Q5	8-729-117-32	s TRANSISTOR 2SC4177
Q6	8-729-117-32	s TRANSISTOR 2SC4177
Q7	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q8	8-729-117-72	s TRANSISTOR 2SC4178
Q9	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q10	8-729-905-18	s TRANSISTOR DTC144EU
Q11	8-729-117-72	s TRANSISTOR 2SC4178
Q12	8-729-905-12	s TRANSISTOR DTA144EU
Q101	8-729-117-72	s TRANSISTOR 2SC4178
Q106	8-729-117-72	s TRANSISTOR 2SC4178
Q107	8-729-117-72	s TRANSISTOR 2SC4178
Q108	8-729-109-44	s TRANSISTOR 2SK94
Q109	8-729-109-44	s TRANSISTOR 2SK94
Q110	8-729-109-44	s TRANSISTOR 2SK94
Q111	8-729-109-44	s TRANSISTOR 2SK94
Q112	8-729-117-72	s TRANSISTOR 2SC4178
Q114	8-729-117-72	s TRANSISTOR 2SC4178
Q115	8-729-117-72	s TRANSISTOR 2SC4178
Q116	8-729-117-72	s TRANSISTOR 2SC4178
Q117	8-729-905-12	s TRANSISTOR DTA144EU
Q118	8-729-905-12	s TRANSISTOR DTA144EU
Q120	8-729-117-32	s TRANSISTOR 2SC4177
Q121	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q122	8-729-117-32	s TRANSISTOR 2SC4177
Q123	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q131	8-729-109-44	s TRANSISTOR 2SK94
Q132	8-729-109-44	s TRANSISTOR 2SK94
Q133	8-729-109-44	s TRANSISTOR 2SK94
Q134	8-729-109-44	s TRANSISTOR 2SK94
Q153	8-729-209-07	s TRANSISTOR 2SC4213-B
Q154	8-729-209-07	s TRANSISTOR 2SC4213-B
Q155	8-729-117-32	s TRANSISTOR 2SC4177
Q156	8-729-117-72	s TRANSISTOR 2SC4178
Q157	8-729-117-72	s TRANSISTOR 2SC4178
Q158	8-729-109-44	s TRANSISTOR 2SK94
Q159	8-729-109-44	s TRANSISTOR 2SK94
Q160	8-729-109-44	s TRANSISTOR 2SK94
Q161	8-729-109-44	s TRANSISTOR 2SK94
Q201	8-729-117-32	s TRANSISTOR 2SC4177
Q202	8-729-117-32	s TRANSISTOR 2SC4177

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q203	8-729-117-32	s TRANSISTOR 2SC4177
Q204	8-729-117-32	s TRANSISTOR 2SC4177
Q205	8-729-117-32	s TRANSISTOR 2SC4177
Q206	8-729-117-32	s TRANSISTOR 2SC4177
Q207	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q208	8-729-117-32	s TRANSISTOR 2SC4177
Q209	8-729-117-32	s TRANSISTOR 2SC4177
Q210	8-729-117-32	s TRANSISTOR 2SC4177
Q211	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q301	8-729-101-07	s TRANSISTOR 2SB798
Q303	8-729-807-50	s TRANSISTOR 2SD1623
R1	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R2	1-218-293-11	s METAL CHIP 24K 5% 1/16W
R3	1-216-994-11	s METAL CHIP 13K 5% 1/16W
R4	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R5	1-216-668-11	s METAL, CHIP 5.1K 0.5% 1/10W
R6	1-216-680-11	s METAL, CHIP 16K 0.5% 1/10W
R7	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R8	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R9	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R10	1-216-828-11	s METAL, CHIP 3.9K 5% 1/16W
R12	1-218-312-11	s METAL, CHIP 470 1% 1/16W
R13	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R14	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R15	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R16	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R17	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R18	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R19	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R20	1-216-824-11	s METAL, CHIP 1.8K 5% 1/16W
R21	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R22	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R23	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R24	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R25	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R26	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R27	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R28	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R29	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R30	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R31	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R32	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R33	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R34	1-216-865-11	s METAL CHIP 3K 1/16W
R45	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R101	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R102	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R103	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R104	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R105	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R106	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R108	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R109	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R110	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R111	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R112	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R113	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R114	1-216-817-11	s METAL, CHIP 470 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R115	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R116	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R117	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R118	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R119	1-216-815-11 s	METAL, CHIP 330 5% 1/16W
R120	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R121	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R122	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R123	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R124	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R125	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R126	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R127	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R128	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R129	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R130	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R131	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R132	1-218-289-11 s	METAL CHIP 510 5% 1/16W
R133	1-218-289-11 s	METAL CHIP 510 5% 1/16W
R134	1-218-288-11 s	METAL, CHIP 300 5% 1/16W
R136	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R138	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R140	1-218-303-11 s	METAL, CHIP 10K 1% 1/16W
R141	1-218-303-11 s	METAL, CHIP 10K 1% 1/16W
R142	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R143	1-216-822-11 s	METAL, CHIP 1.2K 5% 1/16W
R144	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R145	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R146	1-216-814-11 s	METAL, CHIP 270 5% 1/16W
R147	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R148	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R149	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R150	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R151	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R160	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R161	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R162	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R163	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R164	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R165	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R166	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R167	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R168	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R169	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R170	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R171	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R172	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R173	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R174	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R180	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R181	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R182	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
R183	1-216-797-11 s	METAL, CHIP 10 5% 1/16W
R184	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
R185	1-216-864-11 s	METAL, CHIP 0-OHM
R186	1-216-789-11 s	METAL CHIP 2.2 5% 1/16W
R187	1-216-789-11 s	METAL CHIP 2.2 5% 1/16W
R188	1-216-789-11 s	METAL CHIP 2.2 5% 1/16W
R189	1-216-789-11 s	METAL CHIP 2.2 5% 1/16W

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R190	1-216-864-11 s	METAL, CHIP 0-OHM
R191	1-216-816-11 s	METAL, CHIP 390 5% 1/16W
R201	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R202	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R203	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R204	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R205	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R206	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R207	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R208	1-216-820-11 s	METAL, CHIP 820 5% 1/16W
R209	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R210	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R211	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R212	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R213	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R214	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R215	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R216	1-216-836-11 s	METAL, CHIP 18K 5% 1/16W
R217	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R218	1-216-818-11 s	METAL, CHIP 560 5% 1/16W
R219	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R221	1-216-864-11 s	METAL, CHIP 0-OHM
R222	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R223	1-216-820-11 s	METAL, CHIP 820 5% 1/16W
R224	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R226	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R227	1-216-840-11 s	METAL, CHIP 39K 5% 1/16W
R228	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R229	1-218-303-11 s	METAL, CHIP 10K 1% 1/16W
R230	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R231	1-216-834-11 s	METAL, CHIP 12K 5% 1/16W
R232	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R233	1-216-845-11 s	METAL, CHIP 100K 5% 1/16W
R234	1-216-832-11 s	METAL, CHIP 8.2K 5% 1/16W
R236	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R237	1-216-814-11 s	METAL, CHIP 270 5% 1/16W
R238	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R239	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R240	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R241	1-216-791-11 s	METAL CHIP 3.3 5% 1/16W
R242	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R243	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R244	1-216-830-11 s	METAL, CHIP 5.6K 5% 1/16W
R245	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R301	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R302	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R304	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R305	1-216-826-11 s	METAL, CHIP 2.7K 5% 1/16W
RV1	1-237-036-11 s	RES, ADJ, METAL 10K
RV2	1-237-036-11 s	RES, ADJ, METAL 10K
RV3	1-237-034-11 s	RES, ADJ, METAL 2K
RV4	1-237-039-11 s	RES, ADJ, METAL 100K
RV5	1-237-034-11 s	RES, ADJ, METAL 2K
RV6	1-237-035-11 s	RES, ADJ, METAL 5K
RV7	1-237-037-11 s	RES, ADJ, METAL 20K
RV101	1-237-035-11 s	RES, ADJ, METAL 5K
RV102	1-237-035-11 s	RES, ADJ, METAL 5K
RV103	1-237-035-11 s	RES, ADJ, METAL 5K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV104	1-237-035-11	s RES, ADJ, METAL 5K
RV105	1-237-032-11	s RES, ADJ, METAL 500
RV107	1-230-867-11	s RES, ADJ, METAL 1K
RV108	1-230-868-11	s RES, ADJ, METAL 2.2K
RV201	1-237-035-11	s RES, ADJ, METAL 5K
RV202	1-237-035-11	s RES, ADJ, METAL 5K
RV203	1-237-038-11	s RES, ADJ, METAL 50K
RV204	1-230-871-11	s RES, ADJ, METAL 22K
RV205	1-237-033-11	s RES, ADJ, METAL 1K
RV206	1-237-033-11	s RES, ADJ, METAL 1K
RV208	1-230-871-11	s RES, ADJ, METAL 22K
RV209	1-237-035-11	s RES, ADJ, METAL 5K
RV210	1-237-035-11	s RES, ADJ, METAL 5K
RV211	1-237-034-11	s RES, ADJ, METAL 2K
RV212	1-237-036-11	s RES, ADJ, METAL 10K
RV213	1-237-036-11	s RES, ADJ, METAL 10K
TH1	1-808-862-21	s THERMISTER (CHIP)

VDA-11P BOARD (Serial No.44161 and higher)

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6711-993-B	o MOUNTED CIRCUIT BOARD, VDA-11P
1pc	3-724-707-01	o PLATE (VDA-11), ORNAMENTAL
1pc	3-724-753-01	o RING
1pc	7-688-001-12	s W 2, MIDDLE
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
C1	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C2	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C4	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C6	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C7	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C8	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C9	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C10	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C11	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C12	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C13	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C14	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C15	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C16	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C17	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C101	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C103	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C104	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C105	1-162-963-11	s CERAMIC, CHIP 680PF 10% 50V
C106	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C107	1-162-964-11	s CERAMIC, CHIP 0.001uF 10% 50V
C108	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C109	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C110	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C111	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C112	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C113	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C114	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C115	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C116	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C119	1-164-315-11	s CERAMIC, CHIP 470PF 5% 50V
C120	1-164-315-11	s CERAMIC, CHIP 470PF 5% 50V
C121	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C122	1-164-217-11	s CERAMIC, CHIP 150PF 5% 50V
C130	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C131	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C132	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C155	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C156	1-162-970-11	s CERAMIC, CHIP 0.01uF 10% 25V
C157	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C200	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C201	1-162-924-11	s CERAMIC, CHIP 56PF 5% 50V
C202	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C203	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C204	1-135-166-21	s TANTALUM, CHIP 47uF 20% 10V
C205	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C206	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C207	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C208	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C209	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C210	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C211	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C212	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C213	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C214	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C220	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C221	1-162-924-11	s CERAMIC, CHIP 56PF 5% 50V
C222	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C223	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C224	1-135-166-21	s TANTALUM, CHIP 47uF 20% 10V
C225	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C226	1-135-177-21	s TANTALUM, CHIP 1uF 20% 25V
C227	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C228	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C229	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C230	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C231	1-107-826-11	s CERAMIC, CHIP 0.1uF 10% 16V
C232	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C233	1-107-826-11	s CERAMIC, CHIP 0.1uF 10% 16V
C234	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C235	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C236	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C237	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C238	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C239	1-164-227-11	s CERAMIC, CHIP 0.022uF 10% 25V
C240	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C241	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C242	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C243	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C244	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C245	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C246	1-162-924-11	s CERAMIC, CHIP 56PF 5% 50V
C247	1-162-921-11	s CERAMIC, CHIP 33PF 5% 50V
C248	1-135-157-21	s TANTALUM, CHIP 10uF 10% 6.3V
C249	1-162-959-11	s TANTALUM, CHIP 330PF 5% 50V
C250	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C251	1-107-826-11	s CERAMIC, CHIP 0.1uF 10% 16V
C252	1-107-826-11	s CERAMIC, CHIP 0.1uF 10% 16V
C253	1-164-315-11	s CERAMIC, CHIP 470PF 5% 50V
C254	1-162-917-11	s CERAMIC, CHIP 15PF 5% 50V
C255	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C256	1-162-919-11	s CERAMIC, CHIP 22PF 5% 50V
C257	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C258	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C259	1-162-923-11	s CERAMIC, CHIP 47PF 5% 50V
C261	1-126-391-11	s ELECT, CHIP 47uF 20% 6.3V
C262	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C271	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C272	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C273	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C274	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
C275	1-162-927-11	s CERAMIC, CHIP 100PF 5% 50V
C301	1-164-360-11	s CERAMIC, CHIP 0.1uF 10% 16V
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
CN2	1-566-388-11	s CONNECTOR, 2P, MALE
CNJ2	1-565-413-11	o CONNECTOR 2P
CV1	1-141-423-61	s CAP, ADJ
CV2	1-141-423-61	s CAP, ADJ
CV3	1-141-423-61	s CAP, ADJ
CV4	1-141-423-61	s CAP, ADJ
CV11	1-141-423-61	s CAP, ADJ
CV12	1-141-423-61	s CAP, ADJ
CV13	1-141-423-61	s CAP, ADJ

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Ref. No. or Q'ty	Part No.	SP Description
CV14	1-141-423-61	s CAP, ADJ
D200	8-719-941-23	s DIODE DA204UT106
D201	8-719-821-39	s DIODE 1SV160
FL1	1-236-021-21	s FILTER, LOW-PASS
FL2	1-236-126-12	s FILTER, LOW PASS
FL200	1-236-621-11	s FILTER, LOW PASS
FL201	1-236-621-11	s FILTER, LOW PASS
IC1	8-759-209-15	s IC TC4SU69F
IC2	8-741-152-41	s IC SBX1524-21
IC3	8-759-209-15	s IC TC4SU69F
IC101	8-759-209-15	s IC TC4SU69F
IC200	8-752-334-55	s IC CXD1175AM
IC201	8-752-334-55	s IC CXD1175AM
IC202	8-752-329-28	s IC CXD1151Q
IC203	8-752-334-64	s IC CXD1171M
IC204	8-752-356-84	s IC CXD2215AQ
IC206	8-759-079-81	s IC TC74VHC221AFS
IC207	8-759-184-65	s IC TC4W66FU
IC208	8-759-030-16	s IC MC34182M
IC209	8-759-100-94	s IC UPC358G2-E2
IC210	8-759-096-87	s IC TC7WU04FU
IC211	8-759-079-81	s IC TC74VHC221AFS
IC212	8-759-079-81	s IC TC74VHC221AFS
IC213	8-759-082-61	s IC TC4W53FU
IC301	8-759-082-61	s IC TC4W53FU
L1	1-412-064-11	s INDUCTOR 100uH
L2	1-412-064-11	s INDUCTOR 100uH
L3	1-412-058-11	s INDUCTOR 10uH
L4	1-408-785-21	s INDUCTOR CHIP 47uH
L101	1-412-064-11	s INDUCTOR 100uH
L103	1-408-797-11	s INDUCTOR CHIP 470uH
L104	1-408-797-11	s INDUCTOR CHIP 470uH
L105	1-412-064-11	s INDUCTOR 100uH
L106	1-412-064-11	s INDUCTOR 100uH
L200	1-412-064-11	s INDUCTOR 100uH
L201	1-410-377-31	s INDUCTOR, CHIP 4.7uH
L202	1-412-064-11	s INDUCTOR 100uH
L203	1-410-377-31	s INDUCTOR, CHIP 4.7uH
L204	1-412-064-11	s INDUCTOR 100uH
L205	1-412-064-11	s INDUCTOR 100uH
L206	1-412-064-11	s INDUCTOR 100uH
L207	1-412-064-11	s INDUCTOR 100uH
LV200	1-412-810-11	s COIL, VAR 5.6uH
Q1	8-729-905-18	s TRANSISTOR DTC144EU
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-117-32	s TRANSISTOR 2SC4177
Q6	8-729-117-32	s TRANSISTOR 2SC4177
Q7	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q8	8-729-117-72	s TRANSISTOR 2SC4178
Q9	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q10	8-729-905-18	s TRANSISTOR DTC144EU
Q11	8-729-117-72	s TRANSISTOR 2SC4178
Q12	8-729-905-12	s TRANSISTOR DTA144EU
Q13	8-729-117-32	s TRANSISTOR 2SC4177
Q101	8-729-117-72	s TRANSISTOR 2SC4178
Q106	8-729-117-72	s TRANSISTOR 2SC4178

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
Q107	8-729-117-72	s TRANSISTOR 2SC4178
Q108	8-729-109-44	s TRANSISTOR 2SK94
Q109	8-729-109-44	s TRANSISTOR 2SK94
Q110	8-729-109-44	s TRANSISTOR 2SK94
Q111	8-729-109-44	s TRANSISTOR 2SK94
Q112	8-729-117-72	s TRANSISTOR 2SC4178
Q114	8-729-117-72	s TRANSISTOR 2SC4178
Q115	8-729-117-72	s TRANSISTOR 2SC4178
Q116	8-729-117-72	s TRANSISTOR 2SC4178
Q117	8-729-905-12	s TRANSISTOR DTA144EU
Q118	8-729-905-12	s TRANSISTOR DTA144EU
Q120	8-729-117-32	s TRANSISTOR 2SC4177
Q121	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q122	8-729-117-32	s TRANSISTOR 2SC4177
Q123	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q131	8-729-109-44	s TRANSISTOR 2SK94
Q132	8-729-109-44	s TRANSISTOR 2SK94
Q133	8-729-109-44	s TRANSISTOR 2SK94
Q134	8-729-109-44	s TRANSISTOR 2SK94
Q153	8-729-209-07	s TRANSISTOR 2SC4213B
Q154	8-729-209-07	s TRANSISTOR 2SC4213B
Q155	8-729-117-32	s TRANSISTOR 2SC4177
Q156	8-729-117-72	s TRANSISTOR 2SC4178
Q157	8-729-117-72	s TRANSISTOR 2SC4178
Q158	8-729-109-44	s TRANSISTOR 2SK94
Q159	8-729-109-44	s TRANSISTOR 2SK94
Q160	8-729-109-44	s TRANSISTOR 2SK94
Q161	8-729-109-44	s TRANSISTOR 2SK94
Q200	8-729-117-32	s TRANSISTOR 2SC4177
Q201	8-729-117-16	s TRANSISTOR 2SA1611
Q202	8-729-117-32	s TRANSISTOR 2SC4177
Q203	8-729-117-32	s TRANSISTOR 2SC4177
Q204	8-729-117-32	s TRANSISTOR 2SC4177
Q205	8-729-118-58	s TRANSISTOR 2SK852
Q206	8-729-904-41	s TRANSISTOR FMY3
Q207	8-729-117-32	s TRANSISTOR 2SC4177
Q208	8-729-117-16	s TRANSISTOR 2SA1611
Q209	8-729-117-32	s TRANSISTOR 2SC4177
Q210	8-729-117-32	s TRANSISTOR 2SC4177
Q211	8-729-117-32	s TRANSISTOR 2SC4177
Q212	8-729-118-58	s TRANSISTOR 2SK852
Q213	8-729-904-41	s TRANSISTOR FMY3
Q214	8-729-117-16	s TRANSISTOR 2SA1611
Q215	8-729-117-16	s TRANSISTOR 2SA1611
Q303	8-729-807-51	s TRANSISTOR 2SD1623
R1	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R2	1-218-293-11	s METAL, CHIP 24K 5% 1/16W
R3	1-216-994-11	s METAL, CHIP 13K 5% 1/16W
R4	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R5	1-218-864-11	s METAL, CHIP 5.1K 0.5% 1/16W
R6	1-218-721-11	s METAL, CHIP 16K 0.5% 1/16W
R7	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R8	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R9	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R10	1-216-828-11	s METAL, CHIP 3.9K 5% 1/16W
R11	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R13	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R17	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R18	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R19	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W

(VDA-11P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
R20	1-216-824-11	s METAL, CHIP 1.8K 5% 1/16W
R21	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R22	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R23	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R24	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R25	1-216-838-11	s METAL, CHIP 27K 5% 1/16W
R26	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R27	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R28	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R29	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R30	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R31	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R32	1-216-846-11	s METAL, CHIP 120K 5% 1/16W
R33	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R34	1-216-865-91	s METAL, CHIP 3K 5% 1/16W
R35	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R36	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R45	1-216-805-11	s METAL, CHIP 47 5% 1/16W
R101	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R102	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R103	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R104	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R105	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R106	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R108	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R109	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R110	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R111	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R112	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R113	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R114	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R115	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R116	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R117	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R118	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R119	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R120	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R121	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R122	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R123	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R124	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R125	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R126	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R127	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R128	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R129	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R130	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R131	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R132	1-218-289-11	s METAL, CHIP 510 5% 1/16W
R133	1-218-289-11	s METAL, CHIP 510 5% 1/16W
R134	1-218-288-11	s METAL, CHIP 300 5% 1/16W
R136	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R138	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R140	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R141	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R142	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R143	1-216-822-11	s METAL, CHIP 1.2K 5% 1/16W
R144	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R145	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R146	1-216-814-11	s METAL, CHIP 270 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
R147	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R148	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R149	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R150	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R151	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R160	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R161	1-216-818-11	s METAL, CHIP 560 5% 1/16W
R162	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R163	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R164	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R165	1-216-830-11	s METAL, CHIP 5.6K 5% 1/16W
R166	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R167	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R168	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R169	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R170	1-216-845-11	s METAL, CHIP 100K 5% 1/16W
R171	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R172	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R173	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R174	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R180	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R181	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R182	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R183	1-216-797-11	s METAL, CHIP 10 5% 1/16W
R184	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
R185	1-216-864-11	s METAL, CHIP 0-OHM
R186	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R187	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R188	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R189	1-216-789-11	s METAL, CHIP 2.2 5% 1/16W
R190	1-216-864-11	s METAL, CHIP 0-OHM
R191	1-216-816-11	s METAL, CHIP 390 5% 1/16W
R200	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R201	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R202	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R203	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R204	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R205	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R206	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R207	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R208	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R209	1-216-814-11	s METAL, CHIP 270 5% 1/16W
R210	1-218-858-11	s METAL, CHIP 3K 0.50% 1/16W
R211	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R212	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R213	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R214	1-218-870-11	s METAL, CHIP 9.1K 0.50% 1/16W
R215	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R216	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R217	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R218	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R220	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R221	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R222	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R223	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R224	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R225	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R226	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R227	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R228	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W

(VDA-11P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
R229	1-216-814-11	s METAL, CHIP 270 5% 1/16W
R230	1-218-858-11	s METAL, CHIP 3K 0.50% 1/16W
R231	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R232	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R233	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R234	1-218-870-11	s METAL, CHIP 9.1K 0.50% 1/16W
R235	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R236	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R237	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R238	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R239	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R240	1-216-864-91	s METAL, CHIP 0-OHM
R241	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R242	1-218-706-11	s METAL, CHIP 3.9K 0.5% 1/16W
R243	1-218-883-11	s METAL, CHIP 33K 0.5% 1/16W
R244	1-218-724-11	s METAL, CHIP 22K 0.50% 1/16W
R245	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R246	1-216-864-91	s METAL, CHIP 0-OHM
R247	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R248	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R251	1-218-874-11	s METAL, CHIP 13K 0.50% 1/16W
R252	1-218-708-11	s METAL, CHIP 4.7K 0.50% 1/16W
R253	1-218-684-11	s METAL, CHIP 470 0.50% 1/16W
R254	1-218-710-11	s METAL, CHIP 5.6K 0.50% 1/16W
R255	1-218-684-11	s METAL, CHIP 470 0.50% 1/16W
R256	1-218-874-11	s METAL, CHIP 13K 0.50% 1/16W
R257	1-218-732-11	s METAL, CHIP 47K 0.50% 1/16W
R258	1-218-881-11	s METAL, CHIP 27K 0.50% 1/16W
R259	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R260	1-218-716-11	s METAL, CHIP 10K 0.50% 1/16W
R261	1-218-676-11	s METAL, CHIP 220 0.50% 1/16W
R262	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R263	1-218-735-11	s METAL, CHIP 62K 0.50% 1/16W
R264	1-216-839-11	s METAL, CHIP 33K 5% 1/16W
R265	1-218-845-11	s METAL, CHIP 820 0.50% 1/16W
R266	1-218-881-11	s METAL, CHIP 27K 0.50% 1/16W
R267	1-218-881-11	s METAL, CHIP 27K 0.50% 1/16W
R268	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R269	1-216-840-11	s METAL, CHIP 39K 5% 1/16W
R304	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R305	1-216-826-11	s METAL, CHIP 2.7K 5% 1/16W
RV1	1-237-036-11	s RES, ADJ, METAL 10K
RV2	1-237-036-11	s RES, ADJ, METAL 10K
RV3	1-237-034-11	s RES, ADJ, METAL 2K
RV4	1-237-039-11	s RES, ADJ, METAL 100K
RV5	1-237-034-11	s RES, ADJ, METAL 2K
RV6	1-237-035-11	s RES, ADJ, METAL 5K
RV7	1-237-037-11	s RES, ADJ, METAL 20K
RV10	1-237-034-11	s RES, ADJ, METAL 2K
RV101	1-237-035-11	s RES, ADJ, METAL 5K
RV102	1-237-035-11	s RES, ADJ, METAL 5K
RV103	1-237-035-11	s RES, ADJ, METAL 5K
RV104	1-237-035-11	s RES, ADJ, METAL 5K
RV105	1-237-032-11	s RES, ADJ, METAL 500
RV107	1-237-033-11	s RES, ADJ, METAL 1K
RV108	1-237-034-11	s RES, ADJ, METAL 2K
RV200	1-237-033-11	s RES, ADJ, METAL 1K
RV201	1-237-033-11	s RES, ADJ, METAL 1K
RV202	1-237-034-11	s RES, ADJ, METAL 2K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VDA-11P BOARD)

Ref. No. or Q' ty	Part No.	SP Description
RV203	1-237-033-11	s RES, ADJ, METAL 1K
RV204	1-237-034-11	s RES, ADJ, METAL 2K
RV206	1-237-037-11	s RES, ADJ, METAL 20K
RV207	1-237-037-11	s RES, ADJ, METAL 20K
RV208	1-237-035-11	s RES, ADJ, METAL 5K
RV209	1-237-035-11	s RES, ADJ, METAL 5K
RV210	1-237-035-11	s RES, ADJ, METAL 5K
TH200	1-809-308-21	s THERMISTER (CHIP)
X200	1-760-109-21	s CRYSTAL 10.738635MHZ

VF-32 BOARD (Serial No.41954 through 43999)

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-7513-642-B	o MOUNTED CIRCUIT BOARD, VF-32
C1	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C2	1-135-125-21	s TANTALUM, CHIP 33uF 20% 10V
C4	1-135-155-21	s TANTAL CHIP 4.7uF 10% 16V
C8	1-163-115-00	s CERAMIC, CHIP 82PF 5% 50V
C15	1-136-534-11	s FILM 0.0027uF 5% 100V
C16	1-136-683-11	s FILM 0.0056uF 5% 100V
C21	1-164-350-11	s CERAMIC 470PF 10% 1KV
C22	1-126-233-11	s ELECT 22uF 20% 50V
C23	1-163-833-00	s CERAMIC, CHIP 0.068uF 25V
C25	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C26	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C27	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C30	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C31	1-135-091-00	s TANTALUM, CHIP 1uF 10% 16V
C33	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C34	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C35	1-136-683-11	s FILM 0.0056uF 5% 100V
C37	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C38	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C39	1-135-076-21	s TANTALUM, CHIP 1uF 10% 35V
C41	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C42	1-135-092-21	s TANTALUM, CHIP 3.3uF 10% 16V
C45	1-135-159-21	s TANTALUM, CHIP 10uF 10% 20V
C46	1-126-176-11	s ELECT 220uF 20% 10V
C47	1-124-455-00	s ELECT 100uF 20% 16V
C51	1-163-018-00	s CERAMIC, CHIP 0.0056uF 5% 50V
CN1	1-566-395-11	o CONNECTOR, 10P, MALE
CN2	1-566-391-11	o CONNECTOR 12P
CN3	1-506-469-11	o CONNECTOR, 4P, MALE
CN4	1-506-470-11	o CONNECTOR, 5P, MALE
CN5	1-506-470-11	o CONNECTOR, 5P, MALE
CN6	1-506-467-11	o CONNECTOR, 2P, MALE
CN7	1-566-393-11	o CONNECTOR, 6P, MALE
CV1	1-141-370-11	s CAP, CHIP TRIMMER
D1	8-719-914-11	s DIODE HZ4ALL
D2	8-719-800-76	s DIODE 1SS226
D3	8-719-900-95	s DIODE V09G
D5	8-719-901-19	s DIODE V11N
D6	8-719-900-95	s DIODE V09G
D7	8-719-400-18	s DIODE MA152WK
D8	8-719-400-18	s DIODE MA152WK
D9	8-719-800-76	s DIODE 1SS226
D10	8-719-800-76	s DIODE 1SS226
D11	8-719-400-18	s DIODE MA152WK
D12	8-719-910-75	s DIODE HZ7B2L
D13	8-719-104-34	s DIODE 1S2836
D14	8-719-820-58	s DIODE 1SS177
DL1	1-415-487-11	s DELAY LINE 140nS
IC1	8-759-300-28	s IC HA11423MP
IC2	8-759-100-94	s IC UPC358G2
IC3	8-759-209-57	s IC TC4S69F
IC4	8-759-209-54	s IC TC4SQ1F
L2	Δ1-459-899-11	s COIL, HORIZONTAL LINEARITY
L3	1-410-716-31	s INDUCTOR CHIP 82uH

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VF-32 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q1	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q2	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q3	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q4	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q5	8-729-100-66 s	TRANSISTOR 2SC1623
Q6	8-729-105-37 s	TRANSISTOR 2SC3360
Q7	8-729-100-66 s	TRANSISTOR 2SC1623
Q8	8-729-119-00 s	TRANSISTOR 2SK612
Q9	8-729-119-00 s	TRANSISTOR 2SK612
Q10	8-729-105-37 s	TRANSISTOR 2SC3360
Q11	8-729-100-66 s	TRANSISTOR 2SC1623
Q12	8-729-216-22 s	TRANSISTOR 2SA1162
Q13	8-729-175-72 s	TRANSISTOR 2SC2757-T33
Q14	8-729-100-66 s	TRANSISTOR 2SC1623
Q15	8-729-216-22 s	TRANSISTOR 2SA1162
Q16	8-729-141-48 s	TRANSISTOR 2SB624-BV345
Q17	8-729-109-44 s	TRANSISTOR 2SK94
Q18	8-729-216-22 s	TRANSISTOR 2SA1162
R3	1-216-687-11 s	METAL, CHIP 33K 0.5% 1/10W
R4	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R5	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R6	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R8	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R10	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R11	1-216-689-11 s	METAL, CHIP 39K 0.5% 1/10W
R12	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R14	1-216-637-11 s	METAL, CHIP 270 0.5% 1/10W
R15	1-216-671-11 s	METAL, CHIP 6.8K 0.5% 1/10W
R16	1-216-639-11 s	METAL, CHIP 330 0.5% 1/10W
R17	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R19	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R20	1-216-645-11 s	METAL, CHIP 560 0.5% 1/10W
R22	1-216-657-11 s	METAL, CHIP 1.8K 0.5% 1/10W
R23	1-216-673-11 s	METAL, CHIP 8.2K 0.5% 1/10W
R25	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R26	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R27	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R28	1-216-667-11 s	METAL, CHIP 4.7K 0.5% 1/10W
R29	1-214-520-00 s	METAL FILM 30 1% 1/8W
R32	1-216-698-11 s	METAL, CHIP 91K 0.5% 1/10W
R43	1-216-669-11 s	METAL, CHIP 5.6K 0.5% 1/10W
R46	1-215-490-00 s	METAL 750K 1% 1/6W
R79	1-216-681-11 s	METAL, CHIP 18K 0.5% 1/10W
R81	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R82	1-216-683-11 s	METAL, CHIP 22K 0.5% 1/10W
R85	1-216-668-11 s	METAL, CHIP 5.1K 0.5% 1/10W
R86	1-216-693-11 s	METAL, CHIP 56K 0.5% 1/10W
R87	1-216-659-11 s	METAL, CHIP 2.2K 0.5% 1/10W
R91	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
R92	1-216-627-11 s	METAL, CHIP 100 0.5% 1/10W
R93	1-216-644-11 s	METAL, CHIP 510 0.5% 1/10W
R97	1-208-259-00 s	MICRO (OHM) 10M
R102	1-215-830-11 s	METAL, FILM 100K 1% 1/8W
RV1	1-237-035-11 s	RES, ADJ, METAL 5K
RV2	1-237-035-11 s	RES, ADJ, METAL 5K
RV3	1-237-035-11 s	RES, ADJ, METAL 5K
RV4	1-237-041-11 s	RES, ADJ, METAL 500K
RV5	1-237-035-11 s	RES, ADJ, METAL 5K
RV6	1-237-031-11 s	RES, ADJ, METAL 200

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VF-32 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RV7	1-237-032-11 s	RES, ADJ, METAL 500
RV8	1-237-032-11 s	RES, ADJ, METAL 500
RV9	1-237-038-11 s	RES, ADJ, METAL 50K
T1	Δ1-439-419-11 s	TRANSFORMER, FLYBACK
VDR1	1-806-497-00 s	VARISTOR ERZ-C05DK220

VF-50 BOARD (Serial No. 44001 and higher)

Ref. No.

or Q'ty Part No. SP Description

1pc A-8271-332-A o MOUNTED CIRCUIT BOARD, VF-50

C1 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C2 1-135-125-21 s TANTALUM, CHIP 33uF 10% 10V
 C4 1-135-155-21 s TANTALUM 4.7uF 10% 16V
 C8 1-163-249-11 s CERAMIC, CHIP 82PF 5% 50V
 C13 1-131-374-00 s TANTALUM 33uF 10% 16V

C14 1-131-374-00 s TANTALUM 33uF 10% 16V
 C15 Δ 1-136-534-11 s FILM 0.0027uF 5% 100V
 C16 1-136-683-11 s FILM 0.0056uF 5% 100V
 C21 1-164-350-11 s CERAMIC 470PF 10% 1KV
 C22 1-126-233-11 s ELECT 22uF 20% 50V

C23 1-163-833-00 s CERAMIC, CHIP 0.068uF 25V
 C24 1-131-365-21 s TANTALUM 10uF 10% 20V
 C25 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C26 1-135-076-21 s TANTALUM, 1uF 10% 35V
 C27 1-135-159-21 s TANTALUM, 10uF 10% 16V

C30 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C31 1-135-091-00 s TANTALUM, 1uF 10% 16V
 C33 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C34 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C35 1-136-287-11 s FILM 0.0047uF 5% 100V

C37 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V
 C38 1-135-076-21 s TANTALUM 1uF 10% 35V
 C39 1-135-076-21 s TANTALUM 1uF 10% 35V
 C41 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C45 1-135-159-21 s TANTALUM, 10uF 10% 16V
 C46 1-126-176-11 s ELECT 220uF 20% 6.3V
 C47 1-124-455-00 s ELECT 100uF 20% 16V
 C49 1-163-243-11 s CERAMIC 47PF 5% 50V
 C42 1-135-092-21 s TANTALUM 3.3uF 10% 16V
 C51 1-163-018-00 s CERAMIC, CHIP 0.0056uF 10% 50V

C53 1-131-353-00 s TANTALUM 1uF 10% 35V

CN1 1-580-534-11 o PIN, CONNECTOR (PC BOARD) 10P
 CN2 1-580-535-11 o PIN, CONNECTOR (PC BOARD) 12P
 CN4 1-564-004-11 o CONNECTOR, 5P, MALE
 CN5 1-506-470-11 o CONNECTOR, 5P, MALE
 CN6 1-506-467-11 o CONNECTOR, 2P, MALE

CN7 1-580-532-11 o PIN, CONNECTOR (PC BOARD) 6P

CV1 1-141-369-22 s CAP, CHIP TRIMMER

D1 8-719-985-53 s DIODE HZS4ALL
 D2 8-719-800-76 s DIODE 1SS123
 D3 8-719-900-95 s DIODE V09C
 D5 8-719-901-19 s DIODE V11N
 D6 8-719-900-95 s DIODE V09C

D7 8-719-801-78 s DIODE 1S2837
 D8 8-719-801-78 s DIODE 1S2837
 D9 8-719-800-76 s DIODE 1SS123
 D10 8-719-800-76 s DIODE 1SS123
 D11 8-719-801-78 s DIODE 1S2837

D12 8-719-933-47 s DIODE HZS7B2L
 D13 8-719-104-34 s DIODE 1S2836
 D14 8-719-820-58 s DIODE 1SS177

DL1 1-415-487-11 s DELAY LINE 140ns

(VF-50 BOARD)

Ref. No.

or Q'ty Part No. SP Description

IC1 Δ 8-759-300-28 s IC HA11423MP
 IC2 8-759-100-94 s IC UPC358G2
 IC3 8-759-209-57 s IC TC4S69F
 IC4 8-759-209-54 s IC TC4S01F

L2 Δ 1-459-899-11 s COIL, HORIZONTAL LINEARITY
 L3 1-410-716-31 s INDUCTOR CHIP 82uH

Q1 8-729-175-72 s TRANSISTOR 2SC2757-T33
 Q2 8-729-175-72 s TRANSISTOR 2SC2757-T33
 Q3 8-729-175-72 s TRANSISTOR 2SC2757-T33
 Q4 8-729-175-72 s TRANSISTOR 2SC2757-T33
 Q5 8-729-120-28 s TRANSISTOR 2SC1623-L6

Q6 8-729-105-37 s TRANSISTOR 2SC3360
 Q7 8-729-120-28 s TRANSISTOR 2SC1623-L6
 Q8 8-729-119-00 s TRANSISTOR 2SK612
 Q9 8-729-119-00 s TRANSISTOR 2SK612
 Q10 8-729-105-37 s TRANSISTOR 2SC3360

Q11 8-729-120-28 s TRANSISTOR 2SC1623-L6
 Q12 8-729-216-22 s TRANSISTOR 2SA812-M6
 Q13 8-729-175-72 s TRANSISTOR 2SC2757-T33
 Q14 8-729-120-28 s TRANSISTOR 2SC1623-L6
 Q15 8-729-216-22 s TRANSISTOR 2SA812-M6

Q16 8-729-141-48 s TRANSISTOR 2SB624-BV3
 Q17 8-729-109-44 s TRANSISTOR 2SK94
 Q18 8-729-216-22 s TRANSISTOR 2SA812-M6

R3 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W
 R4 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
 R5 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
 R6 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
 R8 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W

R10 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W
 R11 1-216-689-11 s METAL, CHIP 39K 0.5% 1/10W
 R12 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
 R14 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W
 R15 1-216-671-11 s METAL, CHIP 6.8K 0.5% 1/10W

R16 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W
 R17 1-208-775-11 s METAL, CHIP 510 0.5% 1/10W
 R19 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
 R20 1-216-645-11 s METAL, CHIP 560 0.5% 1/10W
 R22 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W

R23 1-216-673-11 s METAL, CHIP 8.2K 0.5% 1/10W
 R25 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
 R26 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
 R27 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
 R28 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W

R29 1-214-520-00 s METAL FILM 30 1% 1/8W
 R32 1-216-698-11 s METAL, CHIP 91K 0.5% 1/10W
 R43 1-208-800-11 s METAL, CHIP 5.6K 0.5% 1/10W
 R46 1-215-490-00 s METAL 750K 1% 1/4W
 R50 Δ 1-216-085-00 s METAL, CHIP 33K 5% 1/10W

R51 Δ 1-216-057-00 s METAL, CHIP 2.2K 5% 1/10W
 R53 1-216-689-11 s METAL, CHIP 39K 5% 1/10W
 R79 1-208-812-11 s METAL, CHIP 18K 0.5% 1/10W
 R81 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W
 R82 1-208-814-11 s METAL, CHIP 22K 0.5% 1/10W

R85 1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W
 R86 1-208-824-11 s METAL, CHIP 56K 0.5% 1/10W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VF-50 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R87	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R91	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R92	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R93	1-208-775-11	s METAL, CHIP 510 0.5% 1/10W
R102	1-215-830-11	s METAL, FILM 100K 1% 1/8W
RV1	1-237-035-11	s RES, ADJ, METAL 5K
RV2	1-237-035-11	s RES, ADJ, METAL 5K
RV3	1-237-035-11	s RES, ADJ, METAL 5K
RV4	1-237-041-11	s RES, ADJ, METAL 500K
RV5	1-237-035-11	s RES, ADJ, METAL 5K
RV6	1-237-031-11	s RES, ADJ, METAL 200
RV7	1-237-032-11	s RES, ADJ, METAL 500
RV8	1-237-032-11	s RES, ADJ, METAL 500
RV9	1-237-038-11	s RES, ADJ, METAL 50K
T1	Δ1-439-419-12	s TRANSFORMER, FLYBACK
VDR1	1-806-497-00	s VARISTOR ERZ-C05DK220

VP-24P BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-6711-992-A	o MOUNTED CIRCUIT BOARD, VP-24P
1pc	3-724-706-01	o PLATE (VP-24), ORNAMENTAL
1pc	3-724-753-01	o RING
5pcs	3-729-061-01	s SCREW (M2X4.5) (TYPE 1)
1pc	7-688-001-12	s W 2, MIDDLE
C1	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C2	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C3	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C4	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C26	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C56	1-163-095-00	s CERAMIC, CHIP 12PF 5% 50V
C83	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C106	1-163-263-11	s CERAMIC 330PF 5% 50V
C111	1-163-235-11	s CERAMIC 22PF 5% 50V
C121	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C123	1-163-099-00	s CERAMIC, CHIP 18PF 5% 50V
C126	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C127	1-126-398-11	s ELECT, CHIP 4.7uF 20% 35V
C128	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C129	1-126-390-11	s ELECT, CHIP 22uF 20% 6.3V
C147	1-163-227-11	s CERAMIC 10PF 5% 50V
C148	1-163-251-11	s CERAMIC 100PF 5% 50V
C149	1-126-401-11	s ELECT, CHIP 1uF 20% 50V
C151	1-163-263-11	s CERAMIC 330PF 5% 50V
C161	1-163-103-00	s CERAMIC, CHIP 27PF 5% 50V
C164	1-162-964-11	s CERAMIC, CHIP 1000P
CN1	1-566-960-11	o CONNECTOR, 50P, MALE
D1	8-719-123-85	s DIODE 1SS304
D2	8-719-123-85	s DIODE 1SS304
D3	8-719-123-85	s DIODE 1SS304
D4	8-719-123-85	s DIODE 1SS304
D5	8-719-911-19	s DIODE 1SS119
FB21	1-543-309-21	s BEAD, FERRITE
FB51	1-543-309-21	s BEAD, FERRITE
FB101	1-543-309-21	s BEAD, FERRITE
IC1	8-759-112-53	s IC UPC1663G
IC2	8-759-112-53	s IC UPC1663G
IC3	8-759-977-69	s IC CXD1357Q
IC4	8-759-230-99	s IC TC74HC4053AF
IC5	8-752-002-99	s IC CX20030-Z
IC6	8-759-209-90	s IC TC4S71F
IC7	8-759-239-34	s IC TC74HC4538AF
L21	1-410-703-21	s INDUCTOR, CHIP 6.8uH
L51	1-410-703-21	s INDUCTOR, CHIP 6.8uH
L101	1-408-778-21	s INDUCTOR CHIP 12uH
L121	1-410-717-31	s INDUCTOR, CHIP 100uH
L122	1-408-779-31	s INDUCTOR CHIP 15uH
L123	1-410-722-31	s INDUCTOR CHIP 270uH
Q1	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q2	8-729-905-18	s TRANSISTOR DTC144EU
Q3	8-729-117-16	s TRANSISTOR 2SA1611-M6
Q4	8-729-117-32	s TRANSISTOR 2SC4177
Q5	8-729-141-48	s TRANSISTOR 2SB624-BV345
Q8	8-729-109-44	s TRANSISTOR 2SK94
Q9	8-729-109-44	s TRANSISTOR 2SK94
Q10	8-729-109-44	s TRANSISTOR 2SK94

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
Q11	8-729-109-44	s TRANSISTOR 2SK94
Q12	8-729-117-72	s TRANSISTOR 2SC4178
Q13	8-729-117-72	s TRANSISTOR 2SC4178
Q14	8-729-117-72	s TRANSISTOR 2SC4178
Q15	8-729-109-44	s TRANSISTOR 2SK94
Q16	8-729-109-44	s TRANSISTOR 2SK94
Q17	8-729-109-44	s TRANSISTOR 2SK94
Q18	8-729-109-44	s TRANSISTOR 2SK94
Q19	8-729-117-72	s TRANSISTOR 2SC4178
Q20	8-729-117-72	s TRANSISTOR 2SC4178
Q21	8-729-117-72	s TRANSISTOR 2SC4178
Q22	8-729-905-12	s TRANSISTOR DTA144EU
Q23	8-729-906-33	s TRANSISTOR DTC114YU
Q25	8-729-906-33	s TRANSISTOR DTC114YU
Q26	8-729-905-18	s TRANSISTOR DTC144EU
Q27	8-729-905-18	s TRANSISTOR DTC144EU
Q28	8-729-905-12	s TRANSISTOR DTA144EU
Q29	8-729-905-18	s TRANSISTOR DTC144EU
Q30	8-729-905-18	s TRANSISTOR DTC144EU
Q31	8-729-117-72	s TRANSISTOR 2SC4178
Q32	8-729-117-72	s TRANSISTOR 2SC4178
Q33	8-729-117-72	s TRANSISTOR 2SC4178
Q34	8-729-117-72	s TRANSISTOR 2SC4178
Q35	8-729-117-72	s TRANSISTOR 2SC4178
Q36	8-729-117-72	s TRANSISTOR 2SC4178
Q37	8-729-117-72	s TRANSISTOR 2SC4178
Q38	8-729-117-72	s TRANSISTOR 2SC4178
Q39	8-729-117-72	s TRANSISTOR 2SC4178
Q40	8-729-905-18	s TRANSISTOR DTC144EU
Q41	8-729-109-44	s TRANSISTOR 2SK94
Q42	8-729-109-44	s TRANSISTOR 2SK94
Q43	8-729-109-44	s TRANSISTOR 2SK94
Q44	8-729-109-44	s TRANSISTOR 2SK94
Q45	8-729-109-44	s TRANSISTOR 2SK94
Q46	8-729-109-44	s TRANSISTOR 2SK94
Q47	8-729-109-44	s TRANSISTOR 2SK94
Q48	8-729-109-44	s TRANSISTOR 2SK94
Q51	8-729-117-72	s TRANSISTOR 2SC4178
Q52	8-729-117-72	s TRANSISTOR 2SC4178
Q53	8-729-905-12	s TRANSISTOR DTA144EU
Q54	8-729-905-18	s TRANSISTOR DTC144EU
Q55	8-729-906-33	s TRANSISTOR DTC114YU
Q56	8-729-905-18	s TRANSISTOR DTC144EU
Q57	8-729-905-12	s TRANSISTOR DTA144EU
Q58	8-729-905-18	s TRANSISTOR DTC144EU
Q59	8-729-905-18	s TRANSISTOR DTC144EU
Q60	8-729-905-12	s TRANSISTOR DTA144EU
Q61	8-729-117-72	s TRANSISTOR 2SC4178
Q62	8-729-905-18	s TRANSISTOR DTC144EU
R1	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R2	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R3	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R4	1-216-831-11	s METAL, CHIP 6.8K 5% 1/16W
R5	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R6	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R7	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R8	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R9	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R21	1-216-809-11	s METAL, CHIP 100 5% 1/16W

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R22	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R23	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R24	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R25	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R26	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R27	1-216-819-11	s METAL, CHIP 680 5% 1/16W
R28	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R29	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R30	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R31	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R32	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R33	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R34	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R37	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R38	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R39	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R40	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R41	1-216-815-11	s METAL, CHIP 330 5% 1/16W
R42	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R43	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R44	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R45	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R46	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R47	1-216-811-11	s METAL, CHIP 150 5% 1/16W
R51	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R52	1-216-809-11	s METAL, CHIP 100 5% 1/16W
R53	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R54	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R55	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R56	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R57	1-216-823-11	s METAL, CHIP 1.5K 5% 1/16W
R58	1-216-827-11	s METAL, CHIP 3.3K 5% 1/16W
R59	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R60	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R61	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R62	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R63	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R64	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R67	1-216-821-11	s METAL, CHIP 1K 5% 1/16W
R68	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R69	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R70	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R71	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R72	1-216-817-11	s METAL, CHIP 470 5% 1/16W
R73	1-216-813-11	s METAL, CHIP 220 5% 1/16W
R74	1-216-807-11	s METAL, CHIP 68 5% 1/16W
R75	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R76	1-216-829-11	s METAL, CHIP 4.7K 5% 1/16W
R80	1-216-837-11	s METAL, CHIP 22K 5% 1/16W
R81	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R82	1-216-825-11	s METAL, CHIP 2.2K 5% 1/16W
R83	1-216-847-11	s METAL, CHIP 150K 5% 1/16W
R84	1-216-841-11	s METAL, CHIP 47K 5% 1/16W
R85	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R86	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R87	1-216-849-11	s METAL, CHIP 220K 5% 1/16W
R89	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R90	1-216-833-11	s METAL, CHIP 10K 5% 1/16W
R91	1-216-833-11	s METAL, CHIP 10K 5% 1/16W

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R92	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R93	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R94	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R95	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R96	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R97	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R98	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R99	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R100	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R101	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R102	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R103	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R104	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R105	1-216-864-11 s	METAL, CHIP 0-OHM
R106	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R107	1-215-433-00 s	METAL, CHIP 3.3K
R108	1-218-689-11 s	METAL, CHIP 750
R109	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R110	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R111	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R112	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R113	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R114	1-216-815-11 s	METAL, CHIP 330 5% 1/16W
R115	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R116	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R117	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R118	1-216-809-11 s	METAL, CHIP 100 5% 1/16W
R119	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R121	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R122	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R123	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R125	1-216-819-11 s	METAL, CHIP 680 5% 1/16W
R126	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R127	1-216-828-11 s	METAL, CHIP 3.9K 5% 1/16W
R128	1-216-829-11 s	METAL, CHIP 4.7K 5% 1/16W
R129	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R130	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R131	1-216-828-11 s	METAL, CHIP 3.9K 5% 1/16W
R132	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R133	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R134	1-216-807-11 s	METAL, CHIP 68 5% 1/16W
R135	1-216-823-11 s	METAL, CHIP 1.5K 5% 1/16W
R136	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R137	1-216-864-11 s	METAL, CHIP 0-OHM
R141	1-216-847-11 s	METAL, CHIP 150K 5% 1/16W
R142	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R143	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R144	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R145	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R146	1-216-839-11 s	METAL, CHIP 33K 5% 1/16W
R147	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R148	1-216-827-11 s	METAL, CHIP 3.3K 5% 1/16W
R149	1-216-824-11 s	METAL, CHIP 1.8K 5% 1/16W
R150	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R151	1-216-817-11 s	METAL, CHIP 470 5% 1/16W
R152	1-216-819-11 s	METAL, CHIP 680 5% 1/16W
R153	1-216-847-11 s	METAL, CHIP 150K 5% 1/16W
R154	1-216-834-11 s	METAL, CHIP 12K 5% 1/16W
R155	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W

(VP-24P BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R156	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R157	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R158	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R159	1-216-853-11 s	METAL, CHIP 470K 5% 1/16W
R160	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
R161	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R162	1-216-825-11 s	METAL, CHIP 2.2K 5% 1/16W
R163	1-216-864-11 s	METAL, CHIP 0-OHM
R164	1-216-834-11 s	METAL, CHIP 12K 5% 1/16W
R165	1-216-849-11 s	METAL, CHIP 220K 5% 1/16W
R166	1-216-833-11 s	METAL, CHIP 10K 5% 1/16W
R168	1-216-813-11 s	METAL, CHIP 220 5% 1/16W
R171	1-216-841-11 s	METAL, CHIP 47K 5% 1/16W
R172	1-216-821-11 s	METAL, CHIP 1K 5% 1/16W
R201	1-216-680-11 s	METAL, CHIP 330 5% 1/16W
R202	1-216-837-11 s	METAL, CHIP 22K 5% 1/16W
RV21	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV23	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV25	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV27	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV51	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV53	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV55	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV57	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV101	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV102	1-230-868-11 s	RES, ADJ, METAL 2.2K
RV141	1-230-870-11 s	RES, ADJ, METAL 10K
S1	1-571-275-11 s	SWITCH, SLIDE

VR-67 BOARD (Serial No. 41954 through 43999)

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-563-869-11 o	CONTACT, FEMALE, AWG26-30
1pc	1-563-874-11 o	HOUSING, 12P
1pc	1-625-089-11 o	PRINTED CIRCUIT BOARD, VR-67
R4	1-216-691-11 s	METAL, CHIP 47K 0.5% 1/10W
RV1	1-238-290-11 s	RES, VAR, CARBON 1K
RV2	1-238-296-11 s	RES, VAR, CARBON 10K
RV3	1-238-293-11 s	RES, VAR, CARBON 10K
RV4	1-238-296-11 s	RES, VAR, CARBON 10K

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

VR-70 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-562-151-11	o HOUSING, 6P
1pc	1-569-193-11	s CONTACT
1pc	1-625-553-13	o PRINTED CIRCUIT BOARD, VR-70
CN1	1-506-485-11	o CONNECTOR, 6P, MALE
RV1	1-230-337-11	s RES, VAR, CARBON 10K
RV2	1-230-337-11	s RES, VAR, CARBON 10K
RV3	1-228-456-00	s RES, ADJ, METAL 1K

VR-77 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-625-554-13	o PRINTED CIRCUIT BOARD, VR-77
RV1	1-223-165-00	s RES, ADJ, WIREWOUND 10K

VR-149 BOARD(Serial No.44001 and higher)

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-562-742-11	o HOUSING, 9P
9pcs	1-564-832-11	o CONTACT
1pc	1-580-582-11	o HOUSING, 12P
9pcs	1-580-599-11	o CONTACT, FEMALE, AWG26-30
1pc	1-643-708-11	o PRINTED CIRCUIT BOARD, VR-149
R4	1-208-822-11	s METAL, CHIP 47K 0.5% 1/10W
RV1	1-238-290-11	s RES, VAR, CARBON 1K
RV2	1-238-296-11	s RES, VAR, CARBON 10K
RV3	1-238-293-11	s RES, VAR, CARBON 10K
RV4	1-238-296-11	s RES, VAR, CARBON 10K

FRAME

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-146-995-41	s CONVERTER, DC-DC (CD-89)
1pc	1-546-092-41	s 1.5" CRT ASSY
1pc	1-547-259-11	o FILTER UNIT, OPTICAL
1pc	1-940-619-11	o HARNESS, SUB (ADP)
1pc	1-940-628-11	o HARNESS, SUB (KV)
1pc	1-945-970-11	s HARNESS (VF CABLE)
1pc	8-759-947-34	s IC LM35DZ
CN1 (to CN-400 board)	1-565-132-11	o HOUSING, 13P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN1 (to IF-298AP board)	1-562-156-11	o HOUSING, 11P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN1 (to LD-21 board)	1-562-151-11	o HOUSING, 6P
	1-569-193-11	s CONTACT, FEMALE AWG24-30
CN1 (to MB-317AP board)	1-565-129-11	o HOUSING 10P
	1-565-163-11	o TERMINAL, SOLDERLESS
CN1 (to PS-162 board)	1-543-157-00	s BEAD, FERRITE
	1-562-253-00	o HOUSING, 3P
	1-562-260-21	o CONTACT, FEMALE AWG24-28
CN1 (to SW-291 board)	1-562-147-11	s HOUSING, 2P
	1-564-026-00	s CONTACT, FEMALE AWG26-30
CN1 (to TC-48AP board)	1-562-147-11	s HOUSING, 2P
	1-569-193-11	s CONTACT, FEMALE AWG24-30
CN2 (to CN-400 board)	1-565-129-11	o HOUSING 10P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN2 (to CN-400 board)	1-565-126-11	o HOUSING, CONNECTOR 7P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN2 (to PS-162 board)	1-543-157-00	s BEAD, FERRITE
	1-562-255-00	o HOUSING, 5P
	1-562-260-21	o CONTACT, FEMALE AWG24-28
CN3 (to CN-400 board)	1-565-133-11	o HOUSING, 14P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN3 (to PS-162 board)	1-543-298-11	s BEAD, FERRITE
	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN3 (to TG-57 board)	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN4 (to CN-400 board)	1-565-133-11	o HOUSING, 14P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN4 (to PS-162 board)	1-543-298-11	s BEAD, FERRITE
	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN5 (to IF-298AP board)	1-562-153-11	o HOUSING, 8P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN5 (to TG-57 board)	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN7 (to PS-162 board)		
	1-562-252-00	o HOUSING, 2P
	1-562-260-21	o CONTACT, FEMALE, AWG24-28
CN8 (to PS-162 board)		
	1-562-149-11	o HOUSING, 4P
	1-569-193-11	s CONTACT, FEMALE AWG24-30
CN10 (to PS-162 board)		
	1-562-254-00	o HOUSING, 4P
	1-562-260-21	o CONTACT, FEMALE AWG24-28
CN11	1-563-029-21	s CONNECTOR, XLR 3P, FEMALE "MIC"
CN21 (to MB-317AP board)		
	1-563-869-11	o CONTACT, FEMALE, AWG26-30
	1-563-878-11	o HOUSING, 20P
CN22 (to MB-317AP board)		
	1-562-148-11	s HOUSING, 3P
	1-569-193-11	s CONTACT, FEMALE AWG24-30
CN22 (to MB-317AP board)		
	1-543-298-11	s BEAD, FERRITE
	1-563-869-11	o CONTACT, FEMALE, AWG26-30
	1-563-874-11	o HOUSING, 12P
CN24 (to MB-317AP board)		
	1-543-298-11	s BEAD, FERRITE
	1-562-150-11	s HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN25 (to MB-317AP board)		
	1-543-298-11	s BEAD, FERRITE
	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN50 (to MB-317AP board)		
	1-563-869-11	o CONTACT, FEMALE, AWG26-30
	1-563-875-11	o HOUSING, 14P
CN51 (to MB-317AP board)		
	1-563-875-11	o HOUSING, 14P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN52 (to MB-317AP board)		
	1-562-151-11	o HOUSING, 6P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN53 (to MB-317AP board)		
	1-562-149-11	o HOUSING, 4P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN56 (to MB-317AP board)		
	1-562-147-11	s HOUSING, 2P
	1-564-026-00	o CONTACT, FEMALE, AWG26-30
CN57 (to MB-317AP board)		
	1-562-150-11	s HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN58 (to MB-317AP board)		
	1-563-869-11	o CONTACT, FEMALE, AWG26-30
	1-563-873-11	o HOUSING, 10P
CN59 (to KY-124 board)		
	1-565-129-11	o HOUSING 10P
	1-565-163-11	o TERMINAL, SOLDERLESS

(FRAME)

Ref. No. or Q'ty	Part No.	SP Description
CN60 (to MB-317A board)		
	1-562-257-00	o HOUSING, CONNECTOR 8P
	1-562-260-21	o CONTACT, FEMALE AWG24-28
CN62 (to MB-317A board)		
	1-562-149-11	o HOUSING, 4P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
C001	1-136-189-00	s FILM 0.1uF 5% 250V
CN001	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT-2"
CN002	1-561-233-21	s CONNECTOR, 6P, FEMALE "REMOTE"
CN004	1-564-603-11	s CONNECTOR 4P, MALE "EXT +12V"
CN005	1-565-072-11	s CONNECTOR, 4P, FEMALE "DC OUT"
CN006	1-563-029-21	s CONNECTOR, XLR 3P, FEMALE
CN007	1-563-029-21	s CONNECTOR, XLR 3P, FEMALE
CN014	1-565-764-11	s CONNECTOR ASSY, BNC "VIDEO OUT-1"
CN016	1-561-781-11	s CONNECTOR, BNC, FEMALE "TC IN"
CN017	1-561-781-21	s CONNECTOR, BNC, FEMALE "TC OUT"
CN018 (to PB ADAPTOR)		
	1-563-970-11	o CONTACT, FEMALE, AWG26-30
	1-563-971-11	s HOUSING, 20P
CN101	1-565-051-11	o CONNECTOR, 20P, FEMALE "VF"
CN102	1-562-221-21	s CONNECTOR, 12P, FEMALE
CN501 (to MB-317A board)		
	1-562-150-11	s HOUSING, 5P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN502 (to MB-317A board)		
	1-562-151-11	o HOUSING, 6P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN503 (to MB-317A board)		
	1-562-147-11	s HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN504 (to MB-317A board)		
	1-562-148-11	s HOUSING, 3P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN505 (to MB-317A board)		
	1-562-152-11	o HOUSING, 7P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN506 (to MB-317A board)		
	1-562-147-11	s HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN507 (to MB-317A board)		
	1-562-147-11	s HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30
CN508 (to MB-317A board)		
	1-565-128-11	o HOUSING, CONNECTOR 9P
	1-565-164-11	o CONTACT, FEMALE AWG26-28
CN509 (to MB-317A board)		
	1-562-147-11	s HOUSING, 2P
	1-563-088-11	o CONTACT, FEMALE, AWG24-30

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

(FRAME)

Ref. No. or Q' ty	Part No.	SP Description
H001	8-825-749-02	s HEAD, AU PPS244-2103
H002	8-825-560-40	s HEAD, CTL RS-253-21
H003	8-825-772-61	s HEAD, ERASE EF291-21A
M001	8-835-308-01	s MOTOR, DC LN18-S1N1B
M002	8-835-313-01	s MOTOR, DC U-19A
R001	1-249-404-00	s CARBON 82 5% 1/4W
SP001	1-503-293-00	s SPEAKER
SW002	1-553-448-00	s SWITCH, TOGGLE
VER001	1-806-504-11	s VARISTOR ERZ-C05DK820

13-4. PACKING MATERIALS AND ACCESSORIES

PACKING MATERIALS & SUPPLIED ACCESSORIES

Ref. No. or Q' ty	Part No.	SP Description
1pc	A-6772-374-A	s BELT ASSY, SHOULDER
1pc	A-7520-314-A	o MOUNTED CIRCUIT BOARD, EX-148
1pc	X-2383-823-3	o CASE ASSY, CARRYING
4pcs	2-383-835-01	o CASTER
1pc	1-542-099-11	s MICROPHONE
1pc	3-707-636-01	s SCREEN ASSY, WIND (CM-BVW200)
1pc	3-725-262-03	s COVER, RAIN

13. SPARE PARTS AND FIXTURE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

13-5. OPTIONAL FIXTURE

OPTIONAL FIXTURE

Ref. No.

or Q'ty Part No. SP Description

J-6001-820-A o DRUM ECCENTRICITY GAUGE (3)
 J-6001-830-A o DRUM ECCENTRICITY GAUGE (2)
 J-6026-100-A o RESOLUTION CHART
 J-6026-130-B o GRAY SCALE CHART
 J-6029-140-A o PATTERN BOX, PTB-500

 J-6052-450-A o WIRE CLEARANCE CHECK GAUGE
 J-6080-003-C o FED BACK TENSION MEASUREMENT CASSET
 J-6086-570-A o PLATE, PARALLEL
 J-6321-500-1 o TAPE GUIDE ADJUSTMENT DRIVER
 J-6321-880-A o CASSETTE DUMMY COVER

 J-6325-110-A o TORQUE DRIVER BIT (FOR M1.4)
 J-6325-360-A o FLATNESS CHECK TOOL
 J-6325-380-A o TORQUE DRIVER BIT (FOR M2)
 J-6325-400-B o TORQUE DRIVER (FOR 3kg)
 J-6325-530-A o DRUM ECCENTRICITY GAUGE (6)

 J-6332-290-C o SERVO REMOTE CONTROL TOOL
 J-6335-730-A o VIDEO SIGNAL INPUT BOARD
 J-6335-740-1 o EXTENSION HARNESS
 J-6335-940-A o REC CURRENT ADJUSTMENT TOOL
 7-732-050-20 o TENSION SCALE (50g FULL SCALE)

 7-732-902-00 o INSPECTION MIRROR
 8-960-096-51 o ALIGNMENT TAPE, CR2-1B PS
 8-960-096-86 o ALIGNMENT TAPE, CR8-1B PS
 8-960-096-91 o ALIGNMENT TAPE, CR5-1B PS
 8-960-098-44 o ALIGNMENT TAPE, CR5-2A PS

 8-960-098-45 o ALIGNMENT TAPE, CR8-1A PS
 9-911-053-00 o THICKNESS GAUGE

Please see pages 13-52 and 13-53 for the part numbers of capacitors and resistors that are not listed in the parts list.

SECTION 14 CHANGED PARTS

NOTE: The numbers identified by making with) are matching with each serial numbers.

AFM-6P BOARD

OLD) CV1 1-141-370-11 s CAP, CHIP TRIMMER
204) CV1 1-141-369-52 s CAP, CHIP TRIMMER
OLD) CV2 1-141-370-11 s CAP, CHIP TRIMMER
204) CV2 1-141-369-52 s CAP, CHIP TRIMMER
OLD) CV3 1-141-370-11 s CAP, CHIP TRIMMER
204) CV3 1-141-369-52 s CAP, CHIP TRIMMER

OLD) CV4 1-141-370-11 s CAP, CHIP TRIMMER
204) CV4 1-141-369-52 s CAP, CHIP TRIMMER
OLD) CV101 1-141-370-11 s CAP, CHIP TRIMMER
204) CV101 1-141-369-52 s CAP, CHIP TRIMMER
OLD) CV102 1-141-370-11 s CAP, CHIP TRIMMER
204) CV102 1-141-369-52 s CAP, CHIP TRIMMER

OLD) CV103 1-141-370-11 s CAP, CHIP TRIMMER
204) CV103 1-141-369-52 s CAP, CHIP TRIMMER
OLD) CV104 1-141-370-11 s CAP, CHIP TRIMMER
204) CV104 1-141-369-52 s CAP, CHIP TRIMMER
OLD) R205 1-216-825-11 s METAL, CHIP 2.2K 5% 1/16W
505) R205 1-216-820-11 s METAL, CHIP 820 5% 1/16W

AT-49A/49C BOARD

OLD) C42 NOT IN USE
207) C42 1-131-388-00 s CAP, TANTALUM 68 10% 6.3V
OLD) IC14 8-759-321-94 s IC HD6305Y0D67P
501) IC14 8-759-347-10 s IC HD6305Y0F20P
OLD) 1pc A-7513-944-A s MOUNTED CIRCUIT BOARD, AT-49A
501) 1pc A-8274-904-A s MOUNTED CIRCUIT BOARD, AT-49C

OLD) C38 1-135-076-21 s TANTALUM, CHIP 1uF 35V
501) C38 1-135-159-21 s TANTALUM, CHIP 1uF 20V
OLD) C2, 4, 6, 7, 9 1-135-093-95 s TANTALUM, CHIP 10uF 16V
501) C2, 4, 6, 7, 9 1-135-159-21 s TANTALUM, CHIP 10uF 20V
OLD) C19, 31 1-135-097-21 s TANTALUM, CHIP 15uF 10V
501) C19, 31 1-135-160-71 s TANTALUM, CHIP 15uF 16V

OLD) C28 1-135-127-95 s TANTALUM, CHIP 47uF 6.3V
501) C28 1-135-166-21 s TANTALUM, CHIP 47uF 10V
OLD) C39 1-135-096-21 s TANTALUM, CHIP 4.7uF 10V
501) C39 1-135-214-21 s TANTALUM, CHIP 4.7uF 20V

AU-97P BOARD

OLD) IC2 8-759-630-27 s IC M5236ML
208) IC2 8-759-095-59 s IC M5237ML

204) Serial No. 42004 and higher
205) Serial No. 42051 and higher
206) Serial No. 42096 and higher
207) Serial No. 42131 and higher
208) Serial No. 42157 and higher
210) Serial No. 42206 and higher
211) Serial No. 42234 and higher
301) Serial No. 42294 and higher
411) Serial No. 43003 and higher
501) Serial No. 44001 and higher
505) Serial No. 44161 and higher

BI-22 BOARD

OLD) R12 1-216-097-91 s METAL, CHIP 100K 5%
207) R12 1-216-092-00 s METAL, CHIP 62K 5%

BI-23 BOARD

OLD) R12 1-216-097-91 s METAL, CHIP 100K 5%
207) R12 1-216-086-00 s METAL, CHIP 36K 5%

BI-24 BOARD

OLD) R12 1-216-097-91 s METAL, CHIP 100K 5%
207) R12 1-216-086-00 s METAL, CHIP 36K 5%

CN-771 BOARD

OLD) NOT USED
501) 1pc 1-643-707-11 o PRINTED CIRCUIT BOARD, CN-771

FE-4 BOARD

OLD) CP1 1-424-101-11 s TRANSFORMER, FE
205) CP1 1-424-511-11 s TRANSFORMER, FE

FL-45 BOARD

OLD) 1pc 1-625-891-12 s PRINTED CIRCUIT BOARD,
FL-45 FLEXIB
211) 1pc 1-625-891-13 s PRINTED CIRCUIT BOARD,
FL-45 FLEXIB

FL-46 BOARD

OLD) 1pc 1-625-891-12 s PRINTED CIRCUIT BOARD,
FL-46 FLEXIB
211) 1pc 1-625-891-13 s PRINTED CIRCUIT BOARD,
FL-46 FLEXIB

FL-57 BOARD

OLD) 1pc 1-625-895-11 s PRINTED CIRCUIT BOARD,
FL-57 FLEXIB
206) 1pc 1-625-895-21 s PRINTED CIRCUIT BOARD,
FL-57 FLEXIB

IF-298 BOARD

OLD) IC6 8-759-153-63 s IC CXD8154AM
202) IC6 8-759-071-41 s IC CXD8154BM
OLD) R66 NOT USED
501) R66 1-208-799-11 s METAL, CHIP 5.1K 0.5% 1/10W
OLD) 1pc A-7515-310-A s MOUNTED CIRCUIT BOARD, IF-298AP
501) 1pc A-7515-310-B s MOUNTED CIRCUIT BOARD, IF-298AP

LP-40/64 BOARD

OLD) 1pc 1-625-086-14 o PRINTED CIRCUIT BOARD, LP-40
501) 1pc 1-643-704-11 o PRINTED CIRCUIT BOARD, LP-64

LP-42/65 BOARD

OLD) 1pc 1-625-087-11 o PRINTED CIRCUIT BOARD, LP-42
501) 1pc 1-643-705-11 o PRINTED CIRCUIT BOARD, LP-65

LP-58/66 BOARD

OLD) 1pc 1-635-204-12 o PRINTED CIRCUIT BOARD, LP-58
501) 1pc 1-643-706-11 o PRINTED CIRCUIT BOARD, LP-66

PR-176 BOARD

OLD) C128 1-135-165-11 s TANTAL 33uF 10% 16V
202) C128 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V
OLD) DL1 1-415-489-11 s 160nS+8nS
202) DL1 1-415-489-31 s DELAY LINE
OLD) DL2 1-415-489-11 s 160nS+8nS
202) DL2 1-415-489-31 s DELAY LINE

OLD) DL3 1-415-489-11 s 160nS+8nS
202) DL3 1-415-489-31 s DELAY LINE
OLD) R299 1-216-065-00 s METAL, CHIP 4.7K 5% 1/10W
203) R299 1-216-061-00 s METAL, CHIP 3.3K 5% 1/10W
OLD) R2 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R2 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W

OLD) R98 1-216-043-00 s METAL, CHIP 560 5% 1/10W
204) R98 1-216-025-00 s METAL, CHIP 100 5% 1/10W
OLD) R100 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R100 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
OLD) R177 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R177 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W

OLD) R342 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R342 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W
OLD) R343 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R343 1-216-642-11 s METAL, CHIP 430 0.5% 1/10W
OLD) R344 1-216-025-00 s METAL, CHIP 100 5% 1/10W
204) R344 1-216-650-11 s METAL, CHIP 910 0.5% 1/10W

OLD) S4 1-570-857-11 s SWITCH, SLIDE
207) S4 1-570-373-12 s SWITCH, SLIDE
OLD) S5 1-570-857-11 s SWITCH, SLIDE
207) S5 1-570-373-12 s SWITCH, SLIDE
OLD) IC11 NOT USED
301) IC11 1-810-067-11 s BP-020

OLD) IC12 NOT USED
301) IC12 1-810-066-11 s BP-021

PS-162/162B BOARD

OLD) 1pc A-6723-368-A o MOUNTED CIRCUIT BOARD, PS-162
206) 1pc A-8271-736-A o MOUNTED CIRCUIT BOARD, PS-162B
OLD) D1 8-719-911-54 s DIODE U05E
210) D1 8-719-911-55 s DIODE U05G
OLD) D4 8-719-911-54 s DIODE U05E
210) D4 8-719-911-55 s DIODE U05G

SV-97AP BOARD

OLD) C91 1-126-629-11 s ELECT 27uF 20% 25V
501) C91 1-109-893-11 s ELECT 39uF 20% 50V
OLD) C103 1-126-630-11 s ELECT 82uF 20% 25V
501) C103 1-110-607-11 s ELECT 82uF 20% 35V

SW-260A/562 BOARD

OLD) 1pc 1-625-088-13 o PRINTED CIRCUIT BOARD, SW-260A
501) 1pc 1-643-709-11 o PRINTED CIRCUIT BOARD, SW-562

SY-117CP BOARD

OLD) R214 1-216-864-11 s METAL, CHIP 0-OHM
204) R214 NOT IN USE
OLD) IC6 8-759-201-61 s IC TC40H004F
208) IC6 8-759-927-29 s IC SN74HCU04ANS

TC-48AP/48BP BOARD

OLD) A-6713-371-A o MOUNTED CIRCUIT BOARD, TC-48AP
206) A-8271-733-A o MOUNTED CIRCUIT BOARD, TC-48BP

VDA-11P BOARD

OLD) CV1 1-141-311-11 s CAR, TRIMMER 20PF
204) CV1 1-141-423-21 s CAP, ADJ
OLD) CV2 1-141-311-11 s CAR, TRIMMER 20PF
204) CV2 1-141-423-21 s CAP, ADJ
OLD) CV3 1-141-311-11 s CAR, TRIMMER 20PF
204) CV3 1-141-423-21 s CAP, ADJ

OLD) CV4 1-141-311-11 s CAR, TRIMMER 20PF
204) CV4 1-141-423-21 s CAP, ADJ
OLD) CV11 1-141-311-11 s CAR, TRIMMER 20PF
204) CV11 1-141-423-21 s CAP, ADJ
OLD) CV12 1-141-311-11 s CAR, TRIMMER 20PF
204) CV12 1-141-423-21 s CAP, ADJ

OLD) CV13 1-141-311-11 s CAR, TRIMMER 20PF
204) CV13 1-141-423-21 s CAP, ADJ
OLD) CV14 1-141-311-11 s CAR, TRIMMER 20PF
204) CV14 1-141-423-21 s CAP, ADJ
OLD) 1pc A-6711-993-A o MOUNTED CIRCUIT BOARD, VDA-11P
505) 1pc A-6711-993-B o MOUNTED CIRCUIT BOARD, VDA-11P

VF-32/50 BOARD

OLD) 1pc A-7513-642-B s MOUNTED CIRCUIT BOARD, VF-32
501) 1pc A-8271-332-A s MOUNTED CIRCUIT BOARD, VF-50

VP-24P BOARD

OLD) C164 NOT IN USE
207) C164 1-162-964-91 s CERAMIC CHIP 1000PF
OLD) D5 NOT IN USE
207) D5 8-719-911-19 s DIODE 1SS119
OLD) R107 1-216-829-11 s METAL, CHIP 4.7K 5% 1/16W
207) R107 1-215-433-00 s METAL, CHIP 3.3K

OLD) R108 1-216-823-11 s METAL, CHIP 1.5K 5% 1/16W
207) R108 1-218-484-11 s METAL, CHIP 750
OLD) R201 1-216-819-11 s METAL, CHIP 680 5% 1/16W
207) R201 1-218-680-11 s METAL, CHIP 330
OLD) IC5 8-759-932-14 s IC CX20030-Z
411) IC5 8-752-002-99 s IC CX20030-Z

VR-67/149 BOARD

OLD) 1pc 1-625-089-11 o PRINTED CIRCUIT BOARD, VR-67
501) 1pc 1-643-708-11 o PRINTED CIRCUIT BOARD, VR-149